

# STIC Search Report

EIC 1700

STIC Database Tracking Number: 168372

**TO: Necholas Ogden**  
**Location: REM 9A31**  
**Art Unit : 1751**  
**October 19, 2005**

**Case Serial Number: 10/678889**

**From: Mei Huang**  
**Location: EIC 1700**  
**REMSSEN 4B28**  
**Phone: 571/272-3952**  
**Mei.huang@uspto.gov**

## Search Notes

Examiner Ogden,

Please review the attached search results.

If you have any questions or if you would like to refine the search query, please feel free to contact me.

Thank you for using STIC services!

Mei Huang



=> fil reg

FILE 'REGISTRY' ENTERED AT 14:23:19 ON 19 OCT 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 18 OCT 2005 HIGHEST RN 865529-02-8

DICTIONARY FILE UPDATES: 18 OCT 2005 HIGHEST RN 865529-02-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 14:23:22 ON 19 OCT 2005

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FILE COVERS 1907 - 19 Oct 2005 VOL 143 ISS 17

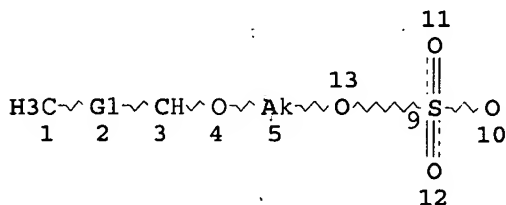
FILE LAST UPDATED: 18 Oct 2005 (20051018/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=&gt; d que 129 stat

L13 STR

*parent structure*

REP G1=(0-16) CH

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS LIN SAT AT 5

DEFAULT ECLEVEL IS LIMITED

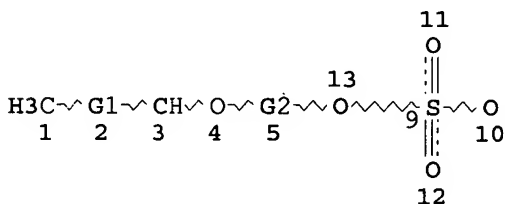
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L22 STR



REP G1=(0-16) CH

REP G2=(3-6) CH2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L26 1206 SEA FILE=REGISTRY SSS FUL L13

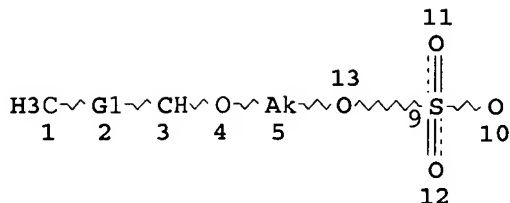
L28 20 SEA FILE=REGISTRY SUB=L26 SSS FUL L22

L29 9 SEA FILE=HCAPLUS L28

=&gt; d que 143

*9 answers on Page 4-13*

L13 STR



REP G1=(0-16) CH

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS LIN SAT AT 5

DEFAULT ECLEVEL IS LIMITED

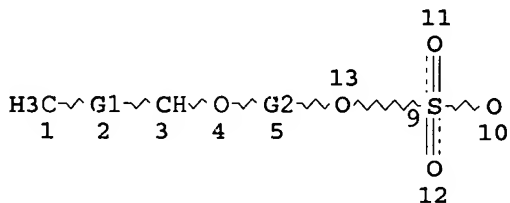
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L22 STR



REP G1=(0-16) CH

REP G2=(3-6) CH2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

L26 1206 SEA FILE=REGISTRY SSS FUL L13  
 L28 20 SEA FILE=REGISTRY SUB=L26 SSS FUL L22  
 L29 9 SEA FILE=HCAPLUS L28  
 L31 318880 SEA FILE=HCAPLUS (CLEAN? OR CLEANSER? OR LAUND? OR  
 DEINK? OR RINS? OR DETERS? OR DETERG? OR ABSTERS? OR  
 EDULCORAT? OR SANIT? OR HYGIEN? OR DISINFECT? OR  
 DECONTAMINA? OR STERILI? OR ABLUT? OR ELUTION# OR  
 ELUTRIAT? OR SCRUB? OR SCOUR? OR DEGREAS? OR LIXIV? OR  
 WASH?)/IT  
 L32 436589 SEA FILE=HCAPLUS (SURFACT? OR BIOSURFACT? OR HYDROTROP?  
 OR DETERG? OR ABSTERG? OR (SURFACE(W)ACTIVE# OR WETTING#)  
 (A) (AGENT? OR ADDITIVE? OR COMPOUND? OR COMPD# OR CMPD#  
 OR CPD#) OR EMULSIFIER? OR DISPERSANT? OR SOAP? OR  
 SHAMPOO?)

NOgden 10/678,889

10/19/2005

L33 11479 SEA FILE=HCAPLUS 46-3/SC  
L34 1877 SEA FILE=HCAPLUS L26 AND L31  
L35 4340 SEA FILE=HCAPLUS L26 AND (L32 OR L33)  
L36 1836 SEA FILE=HCAPLUS L34 AND L35  
L37 67 SEA FILE=HCAPLUS L36 AND L33  
L39 999004 SEA FILE=HCAPLUS (MIXT# OR MIXTURE? OR BLEND? OR ADMIX?  
OR COMMIX? OR IMMIX? OR INTERMIX? OR COMPOSIT? OR COMPN#  
OR COMPSN# OR FORMULAT? OR INTERSPER?)/TI  
L40 27 SEA FILE=HCAPLUS L37 AND L39  
L42 35 SEA FILE=HCAPLUS L29 OR L40  
L43 26 SEA FILE=HCAPLUS L42 NOT L29

There 26 answers (P13-b5) are obtained combining the parent structure, structure query, L13, page 2, with utility words. There are broader results.

=> d l29 cbib abs hitstr hitind 1-9

L29 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN  
2002:487507 Document No. 137:64930 Branched primary alcohol compositions and derivatives, their preparation for detergents. Edwards, Charles Lee; Raney, Kirk Herbert; Shpakoff, Paul Gregory (Shell Internationale Research Maatschappij BV, Neth.). PCT Int. Appl. WO 2002050006 A2 20020627, 61 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-EP15143 20011220. PRIORITY: US 2000-PV257670 20001221.

AB A branched alc. compn. comprising a branched ether primary alc. Me(CHR1)xCHR2O(CH2)3OH where R1 = H or a hydrocarbyl radical having 1-3 C atoms, R2 = hydrocarbyl radical having 1-7 C atoms, x = 0-16, where the total no. of C atoms in the alc. is 9-24; and alkyl ether sulfate, alc. alkoxysulfate, and alkanol alkoxylate derivs. are useful in detergent compns. Thus, 0.6 mol of 1-dodecene and 1.8 mol of 1,3-propanediol and 0.024 mol of toluenesulfonic acid monohydrate were heated to 150° for 4 h, and give a 2 phase mixt. from which was sepd. 3-dodecyloxy-1-propanol (I), selectivity to I was 97%, which was reacted with chlorosulfonic acid (0.7 mol) to give an anionic surfactant having crit. micelle concn. (25°) 0.062 and surface tension 28 dynes/cm.

IT 439293-82-0P 439293-83-1P

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(branched primary alc. compns. and derivs. for surfactants with good cold water soly. and high Ca tolerance)

RN 439293-82-0 HCAPLUS

CN 1-Propanol, 3-(dodecyloxy)-, hydrogen sulfate (9CI) (CA INDEX NAME)

HO<sub>3</sub>SO<sup>-</sup> (CH<sub>2</sub>)<sub>3</sub> O<sup>-</sup> (CH<sub>2</sub>)<sub>11</sub> Me

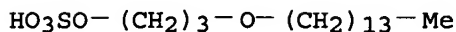
RN 439293-83-1 HCAPLUS

MEI HUANG EIC1700 REM4B28 571-272-3952

Page 4

Applicant

CN 1-Propanol, 3-(tetradecyloxy)-, hydrogen sulfate (9CI) (CA INDEX NAME)



IC ICM C07C043-00

CC 46-3 (Surface Active Agents and Detergents)  
Section cross-reference(s): 23

IT 439293-82-0P 439293-83-1P 439293-84-2P  
439293-85-3P 439293-86-4P 439293-87-5P

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(branched primary alc. compns. and derivs. for surfactants with good cold water soly. and high Ca tolerance)

L29 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1990:140779 Document No. 112:140779 Alkoxytitanium-based surface treatment and treated fillers. Mori, Atsushi; Aizawa, Mamoru; Kataoka, Yoshiharu (Nippon Soda Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01170624 A2 19890705 Heisei, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1987-329355 19871225.

AB Title fillers, useful for high-mol.-wt. matrixes, are treated with products prepd. from tetraalkoxytitanium and/or its hydrolyzed oligomers (d.p.  $\leq 6$ ) and oxyalkylene-contg. acids with 0.1-2.0 mol the acid residues per Ti. Thus, 1 mol tetraisopropoxytitanium and 1 mol mono(pentaoxyethylene) maleate (I) were treated at 60° for 1 h to give title treatment. Then, 100 parts Whiton SSB was mixed with 50 parts of 2% aq. soln. of the treatment and treated at 110° for 2 h to give a filler, 100 parts of which was blended with 75 parts Diol 3000 and kneaded for 30 min to give a compn. showing viscosity 4000 cP at 25° vs. 62,000 for a compn. using a treatment prepd. similarly using N-aminoethylaminoethanol instead of I.

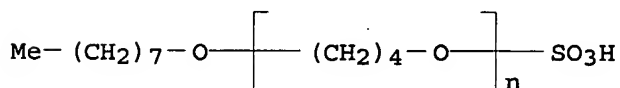
IT 125925-80-6DP, reaction products with tetraisopropoxytitanium

RL: PREP (Preparation)

(prepn. of, as surface treatment for fillers)

RN 125925-80-6 HCAPLUS

CN Poly(oxy-1,4-butanediyl),  $\alpha$ -sulfo- $\omega$ -(octyloxy)- (9CI)  
(CA INDEX NAME)



IC ICM C08K009-04

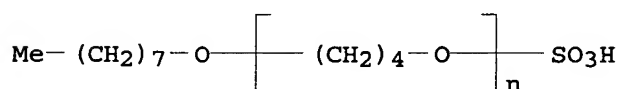
ICS C08K009-04; C09C001-36

CC 38-3 (Plastics Fabrication and Uses)

IT 5593-70-4DP, reaction products with polyoxyalkylene-contg. acids  
26183-44-8DP, reaction products with tetraisopropoxytitanium tetramer  
31800-89-2DP, reaction products with tetrabutoxytitanium  
80165-12-4DP, reaction products with tetrabutoxytitanium hexamers

82293-55-8DP, reaction products with polyoxyalkylene-contg. acids  
 125826-06-4DP, reaction products with polyoxyalkylene-contg. acids  
 125870-89-5DP, reaction products with polyoxyalkylene-contg. acids  
 125925-79-3P 125925-80-6DP, reaction products with  
 tetraisopropoxytitanium 125925-81-7DP, reaction products with  
 tetraisopropoxytitanium pentamer  
 RL: PREP (Preparation)  
 (prepn. of, as surface treatment for fillers)

L29 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN  
 1990:140609 Document No. 112:140609 Surface treatment of fillers with  
 alkoxytitanium coupling agents. Mori, Atsushi; Aizawa, Mamoru;  
 Kataoka, Yoshiharu (Nippon Soda Co., Ltd., Japan). Jpn. Kokai  
 Tokkyo Koho JP 01252642 A2 19891009 Heisei, 10 pp. (Japanese).  
 CODEN: JKXXAF. APPLICATION: JP 1988-81047 19880401.  
 AB Coupling agents for use on non-silicate fillers even in aq. systems  
 contain alkoxytitanium derivs. which are prepd. by the reaction of  
 tetraalkoxytitanium and/or its hydrolytic polycondensate (d.p. <6)  
 with an acid contg. a polyoxyalkylene chain and a compd. forming a  
 cyclic chelate with Ti and contain 0.1-2.0 mol acid residue/mol Ti  
 and >0.2 mol chelating agent/mol Ti. Stirring (iso-PrO)<sub>4</sub>Ti 1,  
 pentaethylene glycol maleic acid monoester 1, glycolic acid 1, and  
 acetylacetone 1 mol at 60° for 1 h and removing iso-PrOH gave  
 a coupling agent which (80 parts 2% aq. soln.) was mixed with 100  
 parts Whiton SSB and dried at 110° to give a coated filler.  
 A 100:75 mixt. of the filler and Diol 3000 (polyether polyol) had  
 viscosity 3800 cP, vs. 70,000 with a (BuO)<sub>4</sub>Ti-triethanolamine  
 reaction product as the coupling agent.  
 IT 125925-80-6D, titanium complexes  
 RL: USES (Uses)  
 (coupling agents, for fillers)  
 RN 125925-80-6 HCAPLUS  
 CN Poly(oxy-1,4-butanediyl), α-sulfo-ω-(octyloxy)- (9CI)  
 (CA INDEX NAME)



IC ICM C08K009-04  
 ICS C07F007-28; C08K009-04  
 CC 37-6 (Plastics Manufacture and Processing)  
 IT 50-21-5D, Lactic acid, titanium complexes 77-92-9D, titanium  
 complexes 79-14-1D, titanium complexes 87-69-4D, titanium  
 complexes 105-45-3D, titanium complexes 112-27-6D, Triethylene  
 glycol, titanium complexes 123-54-6D, Acetylacetone, titanium  
 complexes 5593-70-4D, Titanium tetrabutoxide, complexes  
 5910-25-8D, 3-Phenylacetylacetone, titanium complexes 9022-96-2D,  
 Titanium tetrabutoxide polymer, complexes 26183-44-8D, titanium  
 complexes 31800-89-2D, titanium complexes 37916-19-1D, titanium  
 complexes 53339-36-9D, complexes 125925-80-6D, titanium  
 complexes 125925-81-7D, titanium complexes 126093-15-0D,  
 titanium complexes  
 RL: USES (Uses)

(coupling agents, for fillers)

L29 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1988:77471 Document No. 108:77471 Deinking compositions containing alkylene oxide adducts for recycling of wastepaper. Hamaguchi, Koji; Togashi, Fumihiko; Miyauchi, Yoshitaka (Kao Corp., Japan). Eur. Pat. Appl. EP 241224 A2 19871014, 30 pp. DESIGNATED STATES: R: DE, ES, FR, GB. (English). CODEN: EPXXDW. APPLICATION: EP 1987-302886 19870402. PRIORITY: JP 1986-83419 19860411; JP 1986-313874 19861224.

AB A deinking compn. for recycling waste paper comprises (A) an alkylene oxide adduct of a mixt. of a natural oil or fat and a polyhydric alc. and (B) a compd. selected from the group consisting of (B1) an alkylene oxide adduct of a higher alc. having the formula RO(AO)nH (R = C12-18-alkyl or alkenyl, A = C2-4 alkylene, and n = >5); (B2) a sulfate of an alkylene oxide adduct of a higher alc. having the formula R1O(A1O)mSO3M (R1 = C10-18-alkyl or alkenyl, A1 = alkylene, m = 0.3-5, and M = H, an alkali metal, or NH4) and (B3) a C8-22 fatty acid or its salt. The preferred wt. ratio of (A) to (B) is 99:1-30:70. Thus, 0.4% ethylene oxide (EO)-propylene oxide (PO) adduct with glycerol and palm oil along with C18H37O(EO)10(PO)4H (I) in 70:30 wt. ratio was mixed with NaOH, Na silicate, aq. H2O2 soln., and H2O, mixed with shredded waste newsprint, disintegrated at 55° for 20 min, aged at 50° for 60 min, dild. with H2O to form a 1% pulp consistency. The pulp slurry was treated with 1% CaCl2, subjected to flotation treatment at 30° for 10 min, concd. to 6%, dild. to 1%, and shaped into pulp sheets showing degree of brightness 57.5%, residual ink droplet no. 18, and unreleased ink droplet no. 8, compared with 54.0, 50, and 31, resp., for a similar deinking agent without I.

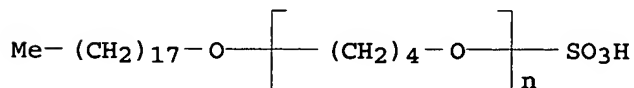
IT 83574-34-9

RL: USES (Uses)

(deinking agents contg., for waste paper)

RN 83574-34-9 HCAPLUS

CN Poly(oxy-1,4-butanediyl),  $\alpha$ -sulfo- $\omega$ -(octadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM D21C005-02

ICS C07C043-11; C07C141-08; C08L071-02

CC 43-6 (Cellulose, Lignin, Paper, and Other Wood Products)

IT 75-21-8D, adducts with polyhydric alcs. and vegetable oil or fat  
 77-85-0D, Trimethylolethane, adducts with alkylene oxide and vegetable oils or fats  
 107-21-1D, adducts with alkylene oxide and vegetable oils or fats  
 115-77-5D, adducts with alkylene oxide and vegetable oils or fats  
 9003-11-6D, adducts with polyhydric alcs. and vegetable oil or fat  
 9004-82-4 9038-43-1 32612-48-9



34431-26-0 37311-00-5 37311-01-6 63428-87-5 65742-74-7  
 83574-34-9 85537-47-9 86836-15-9 99752-71-3  
 106392-12-5D, Ethylene oxide-propylene oxide block copolymer,  
 adducts with polyhydric alcs. and vegetable oil or fat 111445-48-8  
 112869-03-1D, adducts with polyhydric alcs. and vegetable oil or fat  
 112871-48-4 112871-49-5 112871-50-8 112871-55-3 112898-60-9  
 RL: USES (Uses)

(deinking agents contg., for waste paper)

L29 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1984:39446 Document No. 100:39446 Bases for hair preparations. (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 58172307 A2 19831011 Showa, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1982-54719 19820401.

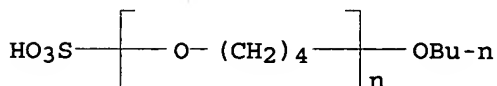
AB Hair prepns. contain alkylene oxide polymer derivs. (such as polypropylene oxide monobutyl ether Na sulfate [88088-94-2] and polyethylene oxide-propylene oxide carboxymethyl ether K salt [88385-89-1]) as bases. The compds. are highly sol. and do not cause staining on clothing and hair is readily manageable after treatment. Thus, a cream rinse was prepd. contg. liq. paraffin 2, stearyl alc. 2, dialkyldimethylammonium chloride 2, polyoxyethylene stearyl ether 2, polyethylene oxide-propylene oxide ether with 2,3-dihydroxypropyltrimethylammonium bromide [88385-90-4] 1, polypropylene oxide ether with 2,3-dihydroxypropyltrimethylammonium bromide and butanol [88293-21-4] 1, propylene glycol 8 and distd. H2O 82% and perfumes and colors.

IT 88292-01-7

RL: BIOL (Biological study)  
 (hair prepns. contg.)

RN 88292-01-7 HCAPLUS

CN Poly(oxy-1,4-butanediyl),  $\alpha$ -sulfo- $\omega$ -butoxy-, potassium salt (9CI) (CA INDEX NAME)



● K

IC A61K007-06

CC 62-3 (Essential Oils and Cosmetics)

IT 88088-94-2 88292-01-7 88293-21-4 88293-22-5  
 88293-23-6 88385-89-1 88385-90-4 88385-91-5 88403-70-7  
 88423-63-6

RL: BIOL (Biological study)  
 (hair prepns. contg.)

L29 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1982:599869 Document No. 97:199869 Filtration-dewatering aids for aqueous slurries. (Kao Soap Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 57084708 A2 19820527 Showa, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1980-162212 19801118.

AB Filtration-dewatering aids for aq. slurries of water-insol. metal hydroxides are prepd. from anionic surfactants RO(ZO)nR1 [R = C8-24 alkyl, alkenyl; Z = C2-4 alkylene; R1 = SO3 M (M = H, K, Na, NH4), PO3M1, CH3CO2M1 (M1 = K, Na); n = 1-100]. Thus, a mixt. of 100 mL 1 M aq. NaOH and 60 g Al(OH)3, after 30 s, was suction-filtered at 500 mm for 3 min to give a cake, which was washed with 100 mL water (90°) contg. 100 ppm C12H25O(C2H4O)3SO3Na (I) [13150-00-0] and suction-filtered (with air passage) at 500 mm for 3 min. The cake (50 g) was dried at 110°. Weighing of the cake at these stages showed that the water content in the cake before drying at 110° was 8.4%, compared with 12.0% when I was omitted.

IT 83574-34-9 83574-35-0 83574-36-1

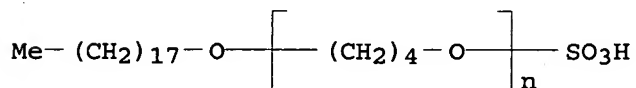
83574-37-2

RL: USES (Uses)

(aluminum hydroxide filtration in presence of, for improved dewatering of filter cake)

RN 83574-34-9 HCAPLUS

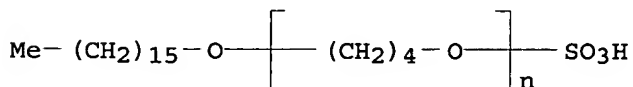
CN Poly(oxy-1,4-butanediyl), α-sulfo-ω-(octadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 83574-35-0 HCAPLUS

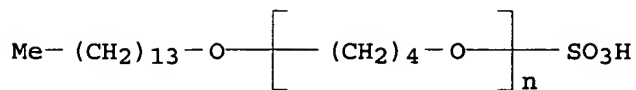
CN Poly(oxy-1,4-butanediyl), α-sulfo-ω-(hexadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

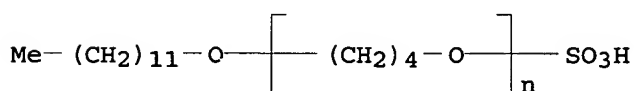
RN 83574-36-1 HCAPLUS

CN Poly(oxy-1,4-butanediyl), α-sulfo-ω-(tetradecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 83574-37-2 HCAPLUS  
 CN Poly(oxy-1,4-butanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC B01D021-01  
 ICA C11D001-02  
 CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 49

IT	9004-82-4	13150-00-0	15826-21-8	36348-64-8	43168-25-8
	54717-42-9	64728-57-0	64939-56-6	74791-05-2	74791-09-6
	74812-85-4	74812-89-8	78900-96-6	78922-78-8	83566-71-6
	83566-72-7	83566-73-8	83566-74-9	83566-75-0	83566-76-1
	83566-77-2	83566-78-3	83566-79-4	83566-80-7	83566-81-8
	83566-82-9	83566-83-0	83566-84-1	83566-85-2	83574-34-9
	83574-35-0	83574-36-1	83574-37-2		
	83574-61-2	83582-33-6	83582-34-7	83582-35-8	83582-36-9
	83582-37-0	83582-38-1	83582-39-2	83582-40-5	83582-41-6
	83582-42-7	83582-43-8	83582-46-1	83582-47-2	83603-55-8
	83603-56-9	83603-57-0	83603-58-1		

RL: USES (Uses)

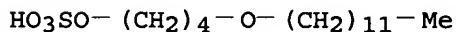
(aluminum hydroxide filtration in presence of, for improved  
 dewatering of filter cake)

L29 ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN  
 1981:605790 Document No. 95:205790 Physicochemical properties of  
 anionic surfactants with poly(oxyalkylene) group in water. Tsujii,  
 Kaoru; Okahashi, Kenji; Takeuchi, Takashi (Tochigi Res. Lab., Kao  
 Soap Co., Tochigi, Japan). Yukagaku, 30(9), 566-72 (Japanese) 1981.  
 CODEN: YKGKAM. ISSN: 0513-398X.

AB The physicochem. properties are detd. for aq. solns. of Na salts of  
 sulfate esters of alkoxyated C12-18 fatty alcs. contg. 1-8  
 oxyalkylene groups/mol. The Krafft point is lower for surfactants  
 contg. polyoxypropylene groups than for surfactants contg.  
 polyoxyethylene groups. The surfactants have good compatibility  
 with Ca<sup>2+</sup> in water. The interfacial tensions between oil and the  
 surfactant solns. are decreased by the addn. of CaCl<sub>2</sub> or MgSO<sub>4</sub>.

Clouding similar to that in nonionic surfactant solns. is obsd. at high concns. of inorg. salts. The surfactants form addn. compds. with some zwitterionic surfactants in the hydrated solid phases below the Krafft points. The surfactants contg. polyoxyethylene groups have higher crit. micelle concns., compared with surfactants contg. polyoxypropylene and polyoxybutylene groups. The effects of the polyoxyethylene group on the crit. micelle concn. are discussed quant.

IT 3694-72-2  
RL: USES (Uses)  
(surfactant properties of)  
RN 3694-72-2 HCAPLUS  
CN 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate, sodium salt (7CI, 9CI)  
(CA INDEX NAME)



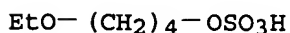
● Na

CC 46-1 (Surface Active Agents and Detergents)  
IT 3088-31-1 3694-72-2 13150-00-0 15826-16-1 43168-25-8  
51814-80-3 65423-83-8 74791-03-0 74791-04-1 74791-05-2  
74812-85-4 74812-89-8 79762-95-1 79777-32-5 79777-33-6  
RL: USES (Uses)  
(surfactant properties of)

L29 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN  
1978:530007 Document No. 89:130007 Polymerization of tetrahydrofuran by proton acids. Pruckmayr, G.; Wu, T. K. (Chem., Dyes Pigm. Dep., E. I. du Pont de Nemours and Co., Wilmington, DE, USA). Macromolecules, 11(4), 662-8 (English) 1978. CODEN: MAMOBX. ISSN: 0024-9297.

AB Polymn. of THF [109-99-9] with nonhydrolyzable protic acids such as CF<sub>3</sub>SO<sub>3</sub>H [1493-13-6] leads to very high mol. wt. polymers by a combination of chain coupling-ring opening steps. Hydrolyzable protic acids, e.g. HFSO<sub>3</sub> [7789-21-1], lead to polymeric species of lower mol. wt. through mono- and dialkyl sulfate formation. Sulfate formation is normally irreversible and slower than chain propagation, causing mol. wts. to go through a max. Such polymns. are not living, but are slowly dying, the rate of termination depending on the polymn. conditions.

IT 67767-21-9  
RL: PRP (Properties)  
(NMR of, as model compd. in polymn. of THF by proton acids)  
RN 67767-21-9 HCAPLUS  
CN 1-Butanol, 4-ethoxy-, hydrogen sulfate (9CI) (CA INDEX NAME)



CC 35-4 (Synthetic High Polymers)

IT 64-67-5 111-73-9 625-22-9 763-23-5 15507-13-8 67767-20-8  
67767-21-9

RL: PRP (Properties)

(NMR of, as model compd. in polymn. of THF by proton acids)

L29 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2005 ACS on STN

1965:455578 Document No. 63:55578 Original Reference No. 63:10179e-f  
The synthesis and some surface-active properties of alkylthioalkyl  
and alkoxyalkyl sulfates. Livingston, J. R., Jr.; Drogin, Robert  
(Esso Res. & Eng. Co., Linden, NJ). Journal of the American Oil  
Chemists' Society, 42(8), 720-3 (English) 1965. CODEN: JAOCA7.  
ISSN: 0003-021X.

AB Na alkylthio- and alkoxyalkyl sulfates were prepd. to det. the  
effect of the presence, position, and nature of the heteroatom on  
the crit. micelle concn. (c.m.c.), the surface activity, and  
detergency of a surfactant. All of the compds. were linear and  
contained a total of 16 C atoms. Hexadecyl sulfate was used as the  
reference compd. Insertion of either a S or O atom into the  
hydrocarbon chain raised the c.m.c. In the O series, the trend was  
to a higher c.m.c. as the O atom was moved farther away from the  
sulfate group, whereas no trend was observed in the thio ether  
series. The surface activity of hexadecyl sulfate was higher than  
either the ether or thio ether series. The farther the heteroatom  
from the sulfate group, the lower was the surface activity. This  
trend was more pronounced in the oxy ethers. All heterosubstituted  
compds. were generally inferior to hexadecyl sulfate in detergency.  
Hydration of the O atom in the oxy ethers, but not the S atom in the  
thio ethers, is proposed as the explanation for the observed trends.

IT 3694-72-2, 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate  
(ester), Na salt 3694-73-3, 1-Hexanol, 6-(decyloxy)-,  
hydrogen sulfate, Na salt

(prepn. and surface-active properties of)

RN 3694-72-2 HCAPLUS

CN 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate, sodium salt (7CI, 9CI)  
(CA INDEX NAME)

$\text{HO}_3\text{SO}-(\text{CH}_2)_4-\text{O}-(\text{CH}_2)_{11}-\text{Me}$

● Na

RN 3694-73-3 HCAPLUS

CN 1-Hexanol, 6-(decyloxy)-, hydrogen sulfate, sodium salt (7CI, 9CI)  
(CA INDEX NAME)

$\text{HO}_3\text{SO}-(\text{CH}_2)_6-\text{O}-(\text{CH}_2)_9-\text{Me}$

● Na

CC 53 (Surface-Active Agents and Detergents)  
 IT 3694-71-1, 1-Dodecanol, 12-butoxy-, hydrogen sulfate (ester), Na salt 3694-72-2, 1-Butanol, 4-(dodecyloxy)-, hydrogen sulfate (ester), Na salt 3694-73-3, 1-Hexanol, 6-(decyloxy)-, hydrogen sulfate, Na salt 3694-74-4, Ethanol, 2-(tetradecyloxy)-, hydrogen sulfate (ester), Na salt 3694-75-5, Ethanol, 2-(tetradecylthio)-, hydrogen sulfate (ester), Na salt 3694-76-6, 1-Undecanol, 11-(pentylthio)-, hydrogen sulfate (ester), Na salt 3694-77-7, 1-Butanol, 4-(dodecylthio)-, hydrogen sulfate (ester), Na salt 3694-78-8, 1-Hexanol, 6-(decylthio)-, hydrogen sulfate, Na salt  
 (prepn. and surface-active properties of)

=> d 143 cbib abs hitstr hitind 1-26

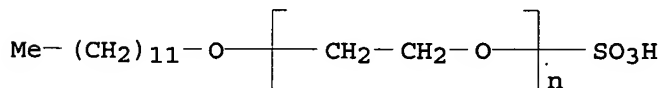
L43 ANSWER 1 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
 2005:726262 Document No. 143:195610 Powder **detergent composition** containing anionic and nonionic **surfactants**, zeolite and alkali metal carbonate.. Inoue, Takumi; Hasumi, Motomitsu; Nishimura, Hiroshi; Iwamoto, Yoshihiro (Kao Corp., Japan). Jpn. Kokai Tokkyo Koho JP 2005213489 A2 20050811, 11 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2004-25984 20040202.

AB ~~title compn. comprises:~~ (A) 12-30 wt.% anionic **surfactant**, R1-O-(EtO)m-SO3-M+ (R1=C8-18 straight/branched alkyl/alkenyl group, m=av. d.p. 0.5-4 (<50 wt.% of component with m=0), M+=Na+ or Ca2+); (B) 1-9 wt.% polyoxyalkylene nonionic **surfactant** with HLB 9-16; (C) 5-50 wt.% Zeolite; and (D) 5-50 wt.% alkali metal carbonate; (A)/(B)=5.7/4.3-9.67/0.33. Thus, odor-free **detergent** compn. was prepd. from polyethylene glycol, tetradecyl ether sodium sulfate 13, Emulgen 108KM 9, Zeobuilder 27, Dense Ash 14, sodium sulfate 12, and NaCl 4, showing high **detergency** and re-contamination resistance.

IT 9004-82-4 27731-62-0, Sodium poly(oxyethylene) tetradecyl ether sulfate 34431-26-0  
 RL: TEM (Technical or engineered material use); USES (Uses) (powder **detergent** compn. contg. anionic and nonionic **surfactants**, zeolite and alkali metal carbonate)

RN 9004-82-4 HCAPLUS

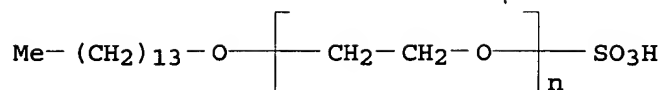
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

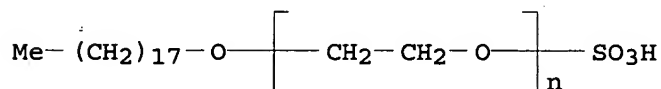
RN 27731-62-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(tetradecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

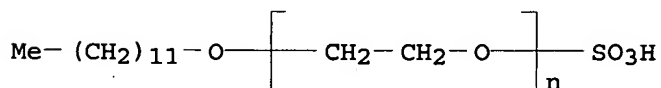
RN 34431-26-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(octadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D001-29  
 ICS C11D001-72; C11D003-10; C11D003-12; C11D017-06  
 CC 46-3 (Surface Active Agents and Detergents)  
 ST polyethylene glycol alkyl sulfate anionic **surfactant**  
 zeolite **detergent** compn; polyoxyalkylene nonionic  
**surfactant** carbonate powder **detergent** compn  
 IT A zeolites  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (Zeobuilder; powder **detergent** compn. contg. anionic and  
 nonionic **surfactants**, zeolite and alkali metal  
 carbonate)  
 IT Polyoxyalkylenes, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkyl group-terminated; powder **detergent** compn. contg.  
 anionic and nonionic **surfactants**, zeolite and alkali  
 metal carbonate)  
 IT **Surfactants**  
 (anionic; powder **detergent** compn. contg. anionic and  
 nonionic **surfactants**, zeolite and alkali metal  
 carbonate)  
 IT **Surfactants**  
 (nonionic; powder **detergent** compn. contg. anionic and  
 nonionic **surfactants**, zeolite and alkali metal  
 carbonate)  
 IT **Detergents**  
 (powd.; powder **detergent** compn. contg. anionic and  
 nonionic **surfactants**, zeolite and alkali metal  
 carbonate)  
 IT Polyoxyalkylenes, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (powder **detergent** compn. contg. anionic and nonionic

- surfactants**, zeolite and alkali metal carbonate)
- IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(sulfo-terminated; powder **detergent** compn. contg. anionic and nonionic **surfactants**, zeolite and alkali metal carbonate)
- IT 497-19-8, Dense Ash, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(Dense Ash; powder **detergent** compn. contg. anionic and nonionic **surfactants**, zeolite and alkali metal carbonate)
- IT 7647-14-5, Sodium chloride, uses 7757-82-6, Sodium sulfate, uses  
9004-82-4 25322-68-3D, PEO, C12-14 alkyl ether  
27731-62-0, Sodium poly(oxyethylene) tetradecyl ether  
sulfate 34431-26-0 227015-79-4, Emulgen 108KM  
RL: TEM (Technical or engineered material use); USES (Uses)  
(powder **detergent** compn. contg. anionic and nonionic **surfactants**, zeolite and alkali metal carbonate)
- L43 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
2002:846625 Document No. 137:312738 Synergistic **detergent composition** containing dissolution enhancers and method for preparing the same. Dhanuka, Vinodkumar Ramniranjan; Dhalewadikar, Shashank Vaman (Hindustan Lever Limited, India). Indian IN 174044 A 19940903, 25 pp. (English). CODEN: INXXAP. APPLICATION: IN 1991-BO249 19910830.
- AB A synergistic **detergent** compn. comprising a **surfactant** and from 0.05 to 5% by wt. of rate of dissoln. enhancer (RODEs) in the form of uniform layer or layers over the **surfactant**. The incorporation of the RODEs surprisingly exhibit enhanced rate of dissoln.
- IT 9004-82-4, Sodium lauryl ether sulfate  
RL: TEM (Technical or engineered material use); USES (Uses)  
(dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- RN 9004-82-4 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)

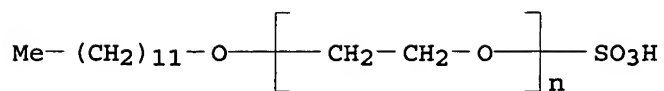


● Na

- IC ICM C11D001-12  
CC 46-3 (Surface Active Agents and Detergents)  
ST dissoln enhancer synergistic **detergent**  
IT Sulfonic acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(1-alkenesulfonic, salts, dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for

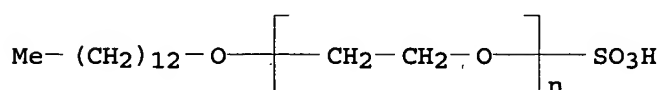


- prepg. the same)
- IT Sulfonic acids, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkanesulfonic, salts, secondary, dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT **Surfactants**  
(synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT **Detergents**  
(synergistic; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- IT 9004-82-4, Sodium lauryl ether sulfate 25322-68-3, Polyethylene glycol.  
RL: TEM (Technical or engineered material use); USES (Uses)  
(dissoln. enhancer; synergistic **detergent** compn. contg. dissoln. enhancers and method for prepg. the same)
- L43 ANSWER 3 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
2001:823346 Document No. 135:359419 Polyethylene glycol alkyl ether sulfates with narrow molecular weight distribution, their manufacture, and their liquid **detergent compositions** with good cleaning ability, foamability, and storage stability, and low skin irritation. Oyaizu, Takahisa; Oyama, Akira; Yoshiya, Masahisa; Nishio, Hiroshi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 2001316352 A2 20011113, 11 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2000-135804 20000509.
- AB R1O(CH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>SO<sub>3</sub>M (R<sub>1</sub> = linear or branched C<sub>6</sub>-24 alkyl, alkenyl; n = av. 1-6; M = H, alkali metal ion, alk. earth metal ion, NH<sub>4</sub><sup>+</sup>, C<sub>2</sub>-3 mono-, di-, trialkanolammonium), whose 55-75% have d.p. (n<sub>A</sub> - 1) to (n<sub>A</sub> + 1) (n<sub>A</sub> = peak d.p. in mol. wt. distribution curve), and which contain ≤30 ppm 1,4-dioxane, are manufd. by addn. of ethylene oxide to alcs. in the presence of Mg-based mixed metal oxides as alkoxylation catalysts, removing the catalysts, and sulfation. Thus, Conol 20P (n-dodecanol) and Diadol 13 (linear and branched tridecanol) were autoclaved with ethylene oxide in the presence of AlMgMnO<sub>x</sub> (x = valence), filtered, the filtrate sulfonated with SO<sub>3</sub> in a thin-film reactor, and neutralized with aq. NaOH to give polyethylene glycol ether sulfate salt (65% of which showed d.p. 1-3) contg. 25 ppm dioxane.
- IT 9004-82-4P 54116-08-4P  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(oligomeric; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents**)
- RN 9004-82-4 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 54116-08-4 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(tridecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C07C305-06  
 ICS A61K007-075; C07C303-24; C11D001-29; C11D001-75; C11D001-90;  
 C11D017-08; C07B061-00  
 CC 46-3 (Surface Active Agents and Detergents)  
 ST **detergent** polyethylene glycol ether sulfate manuf;  
 alkoxylation catalyst magnesium aluminum manganese oxide; metal  
 oxide catalyst liq **detergent** manuf; mol wt distribution  
 narrow **detergent** manuf; dioxane byproduct polyethylene  
 glycol sulfate manuf  
 IT Sulfonates  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (1-alkene, C14, sodium salts; manuf. of polyethylene glycol alkyl  
 ether sulfates with narrow mol. wt. distribution and low dioxane  
 content for liq. **detergents**)  
 IT **Detergents**  
 (liq.; manuf. of polyethylene glycol alkyl ether sulfates with  
 narrow mol. wt. distribution and low dioxane content for liq.  
**detergents**)  
 IT Alkoxylation catalysts  
 Sulfation  
 (manuf. of polyethylene glycol alkyl ether sulfates with narrow  
 mol. wt. distribution and low dioxane content for liq.  
**detergents**)  
 IT Group VIB element compounds  
 Group VIIB element compounds  
 Group VIII element compounds  
 RL: CAT (Catalyst use); USES (Uses)  
 (mixed metal oxides; manuf. of polyethylene glycol alkyl ether  
 sulfates with narrow mol. wt. distribution and low dioxane  
 content for liq. **detergents**)  
 IT 123-91-1P, Dioxane, preparation  
 RL: BYP (Byproduct); PREP (Preparation)  
 (manuf. of polyethylene glycol alkyl ether sulfates with narrow

- mol. wt. distribution and low dioxane content for liq. **detergents)**
- IT 66578-96-9P, Aluminum magnesium manganese oxide  
RL: CAT (Catalyst use); IMF (Industrial manufacture); PREP (Preparation); USES (Uses)  
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents)**
- IT 7446-11-9, Sulfur trioxide, reactions  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents)**
- IT 98-11-3D, Benzenesulfonic acid, alkylated, sodium salts, uses  
1643-20-5, Lauryldimethylamine oxide 4292-10-8  
RL: TEM (Technical or engineered material use); USES (Uses)  
(manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents)**
- IT 9004-82-4P 54116-08-4P  
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(oligomeric; manuf. of polyethylene glycol alkyl ether sulfates with narrow mol. wt. distribution and low dioxane content for liq. **detergents)**

L43 ANSWER 4 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

2000:314423 Document No. 132:323321 **Detergent**

**compositions** containing taurate salts. Abe, Koji; Miyahara, Reiji; Nanba, Tomiyuki; Akutsu, Takahiro; Fukuda, Toshio (Shiseido Company Limited, Japan). Eur. Pat. Appl. EP 999260 A2 20000510, 31 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO. (English). CODEN: EPXXDW. APPLICATION: EP 1999-119787 19991006. PRIORITY: JP 1998-285269 19981007; JP 1998-285270 19981007; JP 1998-285271 19981007.

- AB The object of the present invention is to provide a **detergent** compn. which foams well and has superior usability without leaving sliminess after use. The present invention is a **detergent** compn. which characteristically contains (1) an alkali metal N-methyltaurate salt or an org. alkali N-methyltaurate salt of N-acylmethyltaurine, N-acyltaurine, alkylsulfuric ester, alkyl ether sulfuric ester, or alkylsulfonic acid; (2) an alkali metal hypotaurate salt or an org. alkali hypotaurate salt of N-acylmethyltaurine, N-acyltaurine, alkylsulfuric ester, alkyl ether sulfuric ester, or alkylsulfonic acid; or (3) an alkali metal taurate salt or an org. alkali taurate salt of N-acylmethyltaurine, N-acyltaurine, alkylsulfuric ester, alkyl ether sulfuric ester, or alkylsulfonic acid.

- IT 266994-15-4 266994-16-5 266994-25-6  
266994-26-7

RL: TEM (Technical or engineered material use); USES (Uses)  
(**detergent** compns. contg. taurate salts)

RN 266994-15-4 HCAPLUS

CN Ethanesulfonic acid, 2-(methylamino)-, monosodium salt, compd. with

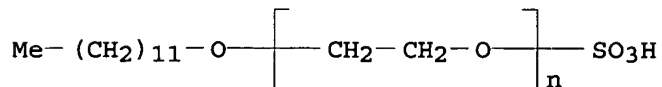
$\alpha$ -sulfo- $\omega$ -(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1)  
(9CI) (CA INDEX NAME)

CM 1

CRN 26183-44-8

CMF (C2 H4 O)<sub>n</sub> C12 H26 O4 S

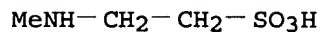
CCI PMS



CM 2

CRN 4316-74-9

CMF C3 H9 N O3 S . Na



● Na

RN 266994-16-5 HCAPLUS

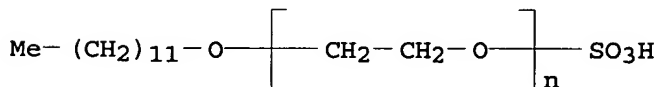
CN Ethanesulfonic acid, 2-(methylamino)-, compd. with  
2,2',2''-nitrilotris[ethanol] and  $\alpha$ -sulfo- $\omega$ -  
(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 26183-44-8

CMF (C2 H4 O)<sub>n</sub> C12 H26 O4 S

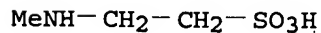
CCI PMS



CM 2

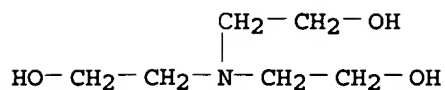
CRN 107-68-6

CMF C3 H9 N O3 S



CM 3

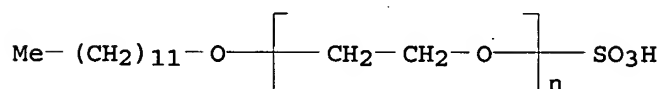
CRN 102-71-6  
CMF C6 H15 N O3



RN 266994-25-6 HCAPLUS  
CN Ethanesulfonic acid, 2-amino-, monosodium salt, compd. with  
 $\alpha$ -sulfo- $\omega$ -(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1)  
(9CI) (CA INDEX NAME)

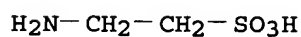
CM 1

CRN 26183-44-8  
CMF (C2 H4 O)<sub>n</sub> C12 H26 O4 S  
CCI PMS



CM 2

CRN 7347-25-3  
CMF C2 H7 N O3 S . Na

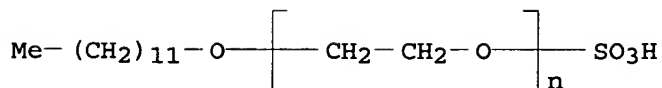


● Na

RN 266994-26-7 HCAPLUS  
CN Ethanesulfonic acid, 2-amino-, compd. with 2,2',2''-  
nitrilotris[ethanol] and  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)poly(oxy-  
1,2-ethanediyl) (1:1:1) (9CI) (CA INDEX NAME)

CM 1

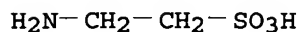
CRN 26183-44-8  
CMF (C2 H4 O)<sub>n</sub> C12 H26 O4 S  
CCI PMS



CM 2

CRN 107-35-7

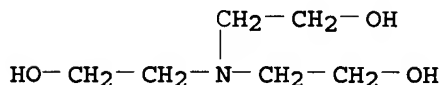
CMF C2 H7 N O3 S



CM 3

CRN 102-71-6

CMF C6 H15 N O3



IC ICM C11D001-88

ICS C11D001-37; C11D001-28

CC 46-3 (Surface Active Agents and Detergents)

ST taurate salt **detergent** foamabilityIT **Detergents****Shampoos**

(detergent compns. contg. taurate salts)

IT 266994-11-0 266994-12-1 266994-13-2 266994-14-3

266994-15-4 266994-16-5 266994-17-6

266994-18-7 266994-19-8 266994-20-1 266994-21-2 266994-22-3

266994-23-4 266994-24-5 266994-25-6 266994-26-7

266994-27-8 266994-28-9 266994-29-0 266994-30-3

RL: TEM (Technical or engineered material use); USES (Uses)

(detergent compns. contg. taurate salts)

L43 ANSWER 5 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

2000:281194 Document No. 133:6180 Optimization of ATP bioluminescence technique in detection of microbial contamination in

**surfactants** and personal hygiene and **detergent****formulations.** Gonzalez, X.; Cid, I.; Castan, P.; Prat, A.

(Kao Chemicals Europe, S.L., Barbera del Valles, 08210, Spain).

Comunicaciones presentadas a la Jornadas del Comité Espanol de la

Detergencia, 30, 93-104 (Spanish) 2000. CODEN: CJCDD7. ISSN:

0212-7466. Publisher: Comité Espanol de la Detergencia,

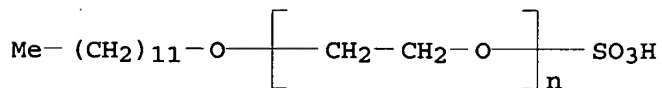
Tensioactivos y Afines.

AB **Surfactant** inhibitor effects in detn. of microbialcontamination in **detergent** formulations by ATP

bioluminescence were resolved by introducing modifications of the

anal. method, i.e., incubation of samples in a neutralizing medium for 3 h. The incubation period does not allow reprodn. but favors bacterial growth and ATP synthesis, which allows for improved detection of microorganisms. Various com. **detergents** were used including formulations contg. sodium laureth sulfate, cocamidopropyl betaine, styrene-acrylate copolymers, sodium lauryl sulfate, Octoxynol-9, liq. **soaps**, etc. The test microorganisms included *Pseudomonas aeruginosa*, *Escherichia coli*, *Citrobacter freundii*, *Pseudomonas putida*, *Serratia marcescens*, *Enterobacter gergoviae*, *Serratia rubidaea*, *Enterobacter amnigenus*, *Klebsiella pneumoniae*, and *Pseudomonas fluorescens*. With these modifications, it was possible to detect contaminations of about 105 ufc/mL, or even less, if the sample was incubated for a short period of time. This redn. in testing time to a few hours is important in prodn. and trade logistics, for both incoming raw materials and finished goods.

IT 9004-82-4, Sodium laureth sulfate  
 RL: AMX (Analytical matrix); ANST (Analytical study)  
 (incubation time to enhance ATP vol. for detection by  
 bioluminescence in detection of microbial contamination of  
**detergents and soaps**)  
 RN 9004-82-4 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

CC 46-3 (Surface Active Agents and Detergents)  
 Section cross-reference(s): 9, 62  
 ST **detergent** microbial contamination detection ATP  
 bioluminescence; **soap** contamination bacterium incubation  
 growth ATP synthesis  
 IT Betaines  
 RL: AMX (Analytical matrix); ANST (Analytical study)  
 (cocamidopropyl derivs.; incubation time to enhance ATP vol. for  
 detection by bioluminescence in detection of microbial  
 contamination of **detergents and soaps**)  
 IT **Detergents**  
 Microorganism  
**Surfactants**  
 (incubation time to enhance ATP vol. for detection by  
 bioluminescence in detection of microbial contamination of  
**detergents and soaps**)  
 IT **Soaps**  
 RL: AMX (Analytical matrix); ANST (Analytical study)  
 (liq.; incubation time to enhance ATP vol. for detection by  
 bioluminescence in detection of microbial contamination of  
**detergents and soaps**)

IT 100-42-5D, Styrene, polymers with acrylates 151-21-3, Sodium lauryl sulfate, analysis 9004-82-4, Sodium laureth sulfate 9036-19-5, Octoxynol-9

RL: AMX (Analytical matrix); ANST (Analytical study)  
(incubation time to enhance ATP vol. for detection by bioluminescence in detection of microbial contamination of **detergents and soaps**)

IT 56-65-5, Adenosine 5'-(tetrahydrogen triphosphate), analysis

RL: ANT (Analyte); ANST (Analytical study)  
(incubation time to enhance ATP vol. for detection by bioluminescence in detection of microbial contamination of **detergents and soaps**)

L43 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

2000:233975 Document No. 132:252820 Polyhydric alcohol hydroxyalkyl ether sulfates, anionic **surfactants**, and **detergent compositions** with good biodegradability, foaming property, and low irritation. Takahashi, Masatoshi; Toda, Haruhiko; Yokoi, Kenji (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 2000103777 A2 20000411, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-278604 19980930.

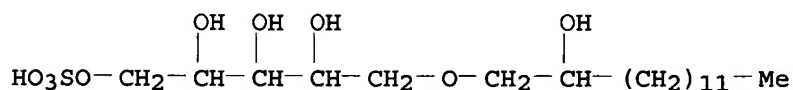
AB Title compns., useful for dishes, hair, body, etc., contain R(X)O(A)nOSO<sub>3</sub>M [R = C<sub>6</sub>-26 alkyl; X = CH(OH)CH<sub>2</sub>, C(CH<sub>2</sub>OH)H; A = C<sub>4</sub>-8 polyhydric alc. residue; M = H, salt-forming cation; n = 1-5] as anionic **surfactants**. Thus, reaction of hydroxylauryl erythritol ether with Na Et sulfate in the presence of H<sub>2</sub>SO<sub>4</sub> gave 96% hydroxylauryl erythritol ether Na sulfate, which showed good **detergency**, foaming, and low skin irritation.

IT 262845-00-1P 262845-01-2P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic **surfactants** for **detergents** with good biodegradability, foaming property, and low irritation)

RN 262845-00-1 HCAPLUS

CN Pentitol, 1-O-(2-hydroxytetradecyl)-, 5-(hydrogen sulfate), monosodium salt (9CI) (CA INDEX NAME)



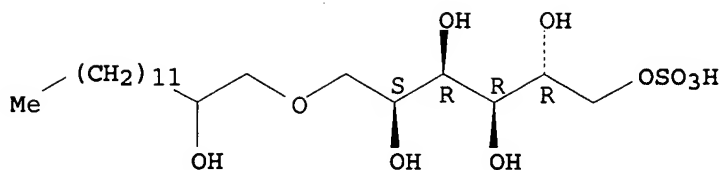
● Na

RN 262845-01-2 HCAPLUS

CN D-Glucitol, 1-O-(2-hydroxytetradecyl)-, 6-(hydrogen sulfate), monosodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.





● Na

- IC ICM C07C305-10  
ICS A61K007-075; A61K007-50; C11D001-16
- CC 46-3 (Surface Active Agents and Detergents)  
Section cross-reference(s): 23
- ST polyhydric alc hydroxyalkyl ether sulfate **surfactant**;  
anionic **surfactant** polyol hydroxyalkyl ether sulfate;  
hydroxylauryl erythritol ether sulfate **surfactant**  
**detergent**
- IT **Surfactants**  
(anionic; prepn. of hydroxyalkyl polyhydric alc. ether sulfates  
as anionic **surfactants** for **detergents** with  
good biodegradability, foaming property, and low irritation)
- IT Cosmetics  
(cleansing; prepn. of hydroxyalkyl polyhydric alc.  
ether sulfates as anionic **surfactants** for  
**detergents** with good biodegradability, foaming property,  
and low irritation)
- IT **Detergents**  
**Shampoos**  
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic  
**surfactants** for **detergents** with good  
biodegradability, foaming property, and low irritation)
- IT 262844-99-5P 262845-00-1P 262845-01-2P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered  
material use); PREP (Preparation); USES (Uses)  
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic  
**surfactants** for **detergents** with good  
biodegradability, foaming property, and low irritation)
- IT 262845-02-3 262845-03-4 262845-04-5  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of hydroxyalkyl polyhydric alc. ether sulfates as anionic  
**surfactants** for **detergents** with good  
biodegradability, foaming property, and low irritation)

L43 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
1999:271468 Document No. 130:313496 Aqueous and non-aqueous heavy duty  
liquid **detergent compositions** comprising  
mid-chain branched **surfactants**. Vinson, Phillip Kyle;  
Cripe, Thomas Anthony; Scheper, William Michael; Stidham, Robert  
Emerson; Connor, Daniel Stedham (The Procter & Gamble Company, USA).  
PCT Int. Appl. WO 9919450 A1 19990422, 94 pp. DESIGNATED STATES:  
W: BR, CA, CN, CZ, CZ, JP, MX, US; RW: AT, BE, CH, CY, DE, DK, ES,  
FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English). CODEN:

PIXXD2. APPLICATION: WO 1998-US21678 19981014. PRIORITY: US 1997-61924 19971014.

AB Aq. and non-aq., heavy duty liq. laundry **detergent** compns. essentially include a branched **surfactant** mixt. which comprises mid-chain branched and linear **surfactant** compds., the linear compds. being 25-70% of the branched **surfactant** mixt., and a nonaq. or aq. liq. carrier. The mid-chain branched **surfactant** compds. are of the formula: Ab-B, where Ab is a hydrophobic moiety having from about 10 to about 18 total carbons divided between a longest chain and at least one short chain, the longest chain being in the range of from about 9 to about 17 carbon atoms, there being one or more C1-3 alkyl moieties branching from the longest chain, provided that at least one of the branching alkyl moieties is attached directly to a carbon of the longest linear carbon chain at a position within the range of position 3 carbon, counting from carbon #1 which is attached to the - B moiety, to position  $\omega - 2$  carbon, wherein  $\omega$  is the terminal carbon. B is a hydrophilic moiety selected from the group consisting of OSO<sub>3</sub>M, (EO/PO)<sub>m</sub>OSO<sub>3</sub>M, (EO/PO)<sub>m</sub>OH and mixts. thereof, wherein EO/PO are alkoxy moieties selected from the group consisting of ethoxy, propoxy, and mixts. thereof, wherein m is at least about 0.01 to about 30 and M is hydrogen or a salt forming cation. Provided that the av. total no. of carbon atoms in the Ab moiety in the branched **surfactant** mixt. is within the range of greater than 12 to about 14.5.

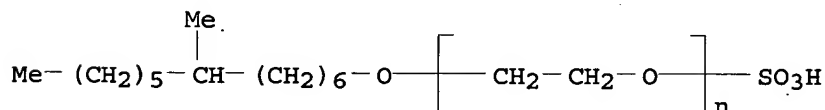
IT 223409-08-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(aq. and non-aq. heavy duty liq. **detergent** compns. comprising mid-chain branched **surfactants**)

RN 223409-08-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methyltridecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D003-39

ICS C11D003-43; C11D001-65; C11D001-835

CC 46-3 (Surface Active Agents and Detergents)

ST midchain branched **surfactant** liq cleaning compn

IT **Surfactants**

(anionic; aq. and non-aq. heavy duty liq. **detergent** compns. comprising mid-chain branched **surfactants**)

IT **Surfactants**

(cationic; aq. and non-aq. heavy duty liq. **detergent** compns. comprising mid-chain branched **surfactants**)

IT Alcohols, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
(ethoxylated, mid-chain branched primary; aq. and non-aq. heavy  
duty liq. **detergent** compns. comprising mid-chain  
branched **surfactants**)

IT **Detergents**

(nonaq., liq., heavy-duty; aq. and non-aq. heavy duty liq.  
**detergent** compns. comprising mid-chain branched  
**surfactants**)

IT **Surfactants**

(nonionic; aq. and non-aq. heavy duty liq. **detergent**  
compns. comprising mid-chain branched **surfactants**)

IT 68760-65-6P, 6-(Hydroxyhexyl)triphenylphosphonium bromide  
223409-05-0P 223409-06-1P 223409-11-8P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP  
(Preparation); RACT (Reactant or reagent)

(aq. and non-aq. heavy duty liq. **detergent** compns.  
comprising mid-chain branched **surfactants**)

IT **223409-08-3P**

RL: IMF (Industrial manufacture); TEM (Technical or engineered  
material use); PREP (Preparation); USES (Uses)

(aq. and non-aq. heavy duty liq. **detergent** compns.  
comprising mid-chain branched **surfactants**)

IT 603-35-0, Triphenylphosphine, reactions 4286-55-9,  
6-Bromo-1-hexanol

RL: RCT (Reactant); RACT (Reactant or reagent)

(aq. and non-aq. heavy duty liq. **detergent** compns.  
comprising mid-chain branched **surfactants**)

IT 98-11-3D, Benzenesulfonic acid, linear alkyl derivs., sodium salts,  
uses 7664-93-9D, Sulfuric acid, ethoxylated mid-chain branched  
primary alkyl esters, sodium salts, uses 7664-93-9D, Sulfuric  
acid, mid-chain branched primary alkyl esters, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(aq. and non-aq. heavy duty liq. **detergent** compns.  
comprising mid-chain branched **surfactants**)

L43 ANSWER 8 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1999:207228 Document No. 130:283710 Nonirritating **surfactants**

with excellent solubility in water and **detergent**

**compositions** containing them. Yokoi, Kenji; Takahashi,

Masatoshi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho JP 11080783

A2 19990326 Heisei, 8 pp. (Japanese). CODEN: JKXXAF. APPLICATION:

JP 1997-250056 19970829.

AB The **surfactants** represented by

R1CH[O(AO)nX]CH2OR2OCH2CHR1O(AO)nSO3M or

R3OCH2CH[O(AO)nX]CH2OR4OCH2CH(CH2OR3)O(AO)nSO3M (R1, R3 = aliph. or  
arom. group; R2, R4 = bivalent aliph. group; AO = lower alkyleneoxy;  
X = H, lower alkyl; M = H, salt-forming cation; n = 1-20) are prepd.

Thus, 49 g 1,8-bis(decyloxymethyl)-3,6-dioxaoctane-1,8-diol was  
treated with 59 g ethylene oxide in the presence of KOH and then the  
resulting product was further treated with SO3 and neutralized with  
NaOH to give C10H21OCH2CH[O(C2H4O)nH]CH2OC2H4OCH2CH(CH2OC10H21)O(C2H  
4O)nSO3Na (n = 6.5) showing good soly. in H2O and good stability of  
its aq. soln. A mild **shampoo** with good foamability was  
prepd. by the use of the **surfactant**.

IT **222532-73-2P**, Ethoxylated 1,8-didecyl-3,6-dioxaoctane-1,8-

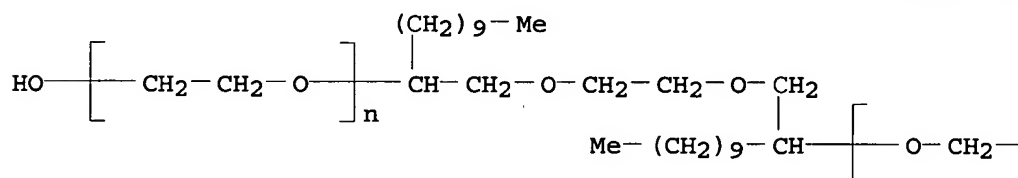
diol, monosulfate, sodium salt **222532-74-3P**, Ethoxylated

1,11-didecyl-3,6,9-trioxa-1,11-undecanediol, monosulfate, sodium salt 222532-75-4P, Ethoxylated 1,11-didodecyl-3,6,9-trioxa-1,11-undecanediol, monoethyl ether, monosulfate, sodium salt  
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (nonirritating **surfactants** with good soly. in water for **detergent** compns.)

RN 222532-73-2 HCAPLUS

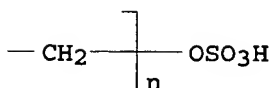
CN Poly(oxy-1,2-ethanediyl), ω-hydroxy-ω'-(sulfooxy)-α,α'-[1,2-ethanediylbis[oxy(1-decyl-2,1-ethanediyl)]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

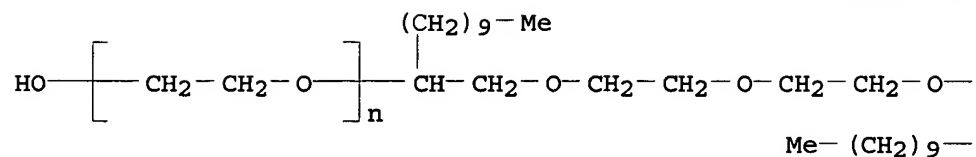
PAGE 1-B



RN 222532-74-3 HCAPLUS

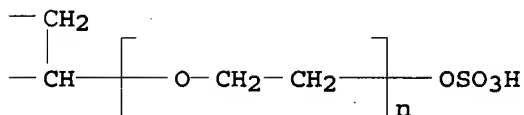
CN Poly(oxy-1,2-ethanediyl), ω-hydroxy-ω'-(sulfooxy)-α,α'-[oxybis[2,1-ethanediyl]oxy(1-decyl-2,1-ethanediyl)]]bis-, monosodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



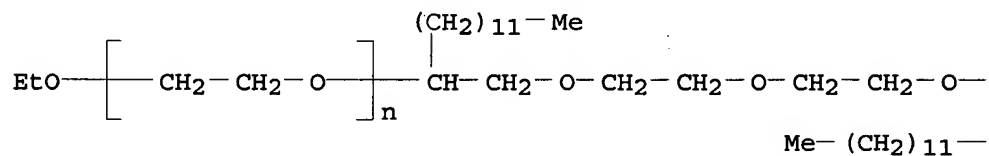
● Na

PAGE 1-B



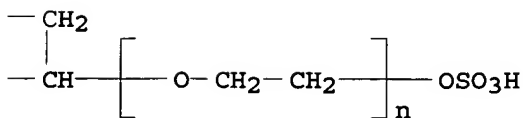
RN 222532-75-4 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), ω-ethoxy-ω'-(sulfooxy)-  
 α,α'-[oxybis[2,1-ethanediyl]oxy(1-dodecyl-2,1-ethanediyl)]bis-, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B

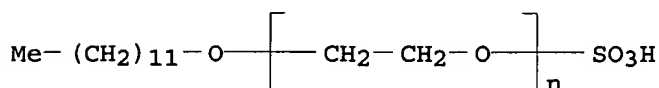


- IC ICM C11D001-29  
ICS B01F017-04; B01F017-42; A61K007-075; A61K007-50
- CC 46-3 (Surface Active Agents and Detergents)  
Section cross-reference(s): 62
- ST nonirritating **surfactant** polyoxyalkylene sulfate manuf;  
**shampoo surfactant** polyoxyalkylene sulfate  
foamability
- IT **Detergents**  
(dishwashing; nonirritating **surfactants** with good soly.  
in water for **detergent** compns.)
- IT **Shampoos**  
**Surfactants**  
(nonirritating **surfactants** with good soly. in water for  
**detergent** compns.)
- IT 222532-73-2P, Ethoxylated 1,8-didecyl-3,6-dioxaoctane-1,8-  
diol, monosulfate, sodium salt 222532-74-3P, Ethoxylated  
1,11-didecyl-3,6,9-trioxa-1,11-undecanediol, monosulfate, sodium  
salt 222532-75-4P, Ethoxylated 1,11-didodecyl-3,6,9-trioxa-  
1,11-undecanediol, monoethyl ether, monosulfate, sodium salt  
222532-76-5P, Ethoxylated 1,8-bis(decyloxymethyl)-3,6-dioxaoctane-  
1,8-diol, monosulfate, sodium salt 222532-77-6P, Ethoxylated  
1,11-bis(dodecyloxymethyl)-3,6,9-trioxa-1,11-undecanediol, monoethyl  
ether, monosulfate, sodium salt 222532-78-7P, Ethoxylated  
1,11-bis(dodecyloxymethyl)-3,6,9-trioxa-1,11-undecanediol,  
monosulfate, sodium salt 222622-43-7P, Ethoxylated propoxylated  
1,9-didodecyl-3,7-dioxanonane-1,9-diol, monosulfate, sodium salt  
222622-46-0P, Ethoxylated propoxylated 1,8-bis(octyloxymethyl)-3,6-  
dioxaoctane-1,8-diol, monosulfate, sodium salt  
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical  
or engineered material use); PREP (Preparation); USES (Uses)  
(nonirritating **surfactants** with good soly. in water for  
**detergent** compns.)
- L43 ANSWER 9 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
1999:106949 Document No. 130:198155 Preparation of (amidoalkyl)amino  
carboxylic acids and **surfactant** and **detergent**  
**compositions** containing them. Wakui, Tsugio; Kawashima,  
Akiko; Okano, Tomomichi; Nishida, Shigeo (Lion Akzo K. K., Japan;  
Lion Corp.). Jpn. Kokai Tokkyo Koho JP 11035537 A2 19990209 Heisei,  
9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-194213  
19970718.
- AB RCONH(CH<sub>2</sub>)<sub>m</sub>NH(CH<sub>2</sub>)<sub>n</sub>CO<sub>2</sub>M (I; R = C<sub>5</sub>-21 alkyl, alkenyl; m = 2-8; n =  
1-2; M = H, alkali metal, NH<sub>4</sub>, C<sub>2</sub>-3 alkanol- or C<sub>1</sub>-5  
alkyl-substituted ammonium, basic amino acid) are prepd. by ring  
opening of cyclic amidines (prepd. from aliph. nitriles and  
diamines) in the presence of H<sub>2</sub>O, reaction with (a) halo carboxylic  
acids or their salts, (b) acrylic acid lower alc. esters, or (c)  
acrylonitrile, and optional hydrolysis. Thus, 2-undecyl-4,5-  
dihydroimidazole was heated in aq. EtOH at 80° for 2 h and  
treated with ClCH<sub>2</sub>CO<sub>2</sub>Na in the presence of NaOH for 4.5 h to give I  
(R = C<sub>11</sub>H<sub>23</sub>, m = 2, n = 1, M = Na), 10 parts of which was mixed with  
5 parts polyoxyethylene lauryl ether and H<sub>2</sub>O to 100 parts to give a  
compn. showing good fluidity, transparency, foamability, and  
**detergency** and no skin irritation.
- IT 9004-82-4, Polyoxyethylene lauryl ether sodium sulfate

RL: TEM (Technical or engineered material use); USES (Uses)  
(prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents** contg.)

RN 9004-82-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C07C233-36

ICS C07C231-12; C07C233-38; C11D001-10

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 23, 62

ST amidoalkylamino carboxylic acid prepn **surfactant detergent**

IT Nitriles, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
(aliph.; prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)

IT **Surfactants**

(amphoteric; prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)

IT **Surfactants**

(anionic; prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents** contg.)

IT Amidines

RL: IMF (Industrial manufacture); RCT (Reactant); PREP  
(Preparation); RACT (Reactant or reagent)  
(cyclic; prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)

IT Amines, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
(diamines; prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)

IT Carboxylic acids, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)  
(halo; prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)

IT Ring opening

(in prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)

IT **Detergents**

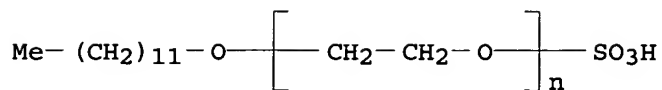
(prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)

IT 10443-61-5P 46843-77-0P 88097-29-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP  
(Preparation); RACT (Reactant or reagent)  
(prepn. of (amidoalkyl)amino carboxylic acids as

- IT 220834-33-3P  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)
- IT 220834-30-0P 220834-31-1P 220834-32-2P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)
- IT 107-13-1, 2-Propenenitrile, reactions 107-15-3, Ethylenediamine, reactions 109-76-2, 1,3-Propanediamine 140-88-5 629-63-0, Myristonitrile 2437-25-4, Lauronitrile 3926-62-3, Sodium monochloroacetate  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents**)
- IT 9004-82-4, Polyoxyethylene lauryl ether sodium sulfate 29963-33-5, Sodium  $\alpha$ -tetradecenesulfonate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (prepn. of (amidoalkyl)amino carboxylic acids as  
**surfactants for detergents contg.**)
- L43 1998:221078 ANSWER 10 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
 Document No. 128:245472 Mild cleansing bar  
**compositions.** Jaworski, Robert J.; Park, Debra A. (Dial Corp., USA). PCT Int. Appl. WO 9814559 A1 19980409, 26 pp.  
 DESIGNATED STATES: W: CA, GB, ID, IL, KR, MX. (English). CODEN: PIXXD2. APPLICATION: WO 1997-US17993 19971002. PRIORITY: US 1996-726089 19961004.
- AB A transparent cleansing bar compn. comprises 10-45% of a synthetic **detergent** with a major portion of the **detergent** being a sulfated ethoxylated long chain alkyl alc. of the formula  $R(OCH_2CH_2)_nSO_3X$  wherein R is an alkyl group having 12-16 carbon atoms, n is 2 or 3, and X is an alkali metal or alk. earth metal; 10-30% of a polyhydric alc.  $H(OCH_2CH_2)_nOH$  wherein n has an av. value of 6 to 16; 15-30% of a water sol. **soap**, wherein the ratio of the **soap** to the synthetic **detergent** ranges 1:1 to about 1:2; 5-20% of a fatty acid alkanolamide; 0-15% of an alkyl sarcosinic acid  $RCONMeCHCO_2H$ , where R is alkyl having 10 to 16 carbon atoms; and 0-10% of a nonionic alkyl polyglycoside with the compn. having a pH of  $\geq 7.5$ .
- IT 9004-82-4, Sodium laureth-3 sulfate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (mild **cleansing** bar compns.)
- RN 9004-82-4 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)





● Na

IC ICM C11D017-00  
ICS C11D015-04; C11D009-22

CC 46-3 (Surface Active Agents and Detergents)

ST mild cleansing bar compn; sulfated ethoxylated alc **detergent**  
; polyhydric alc cleansing bar; fatty acid alkanolamide cleansing  
bar; alkyl sarcosinic acid cleansing bar; polyglycoside alkyl  
cleansing bar

IT Alcohols, uses  
Alcohols, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(C16-18, ethoxylated; mild **cleansing** bar compns.)

IT Amides, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(N-(hydroxyalkyl); mild **cleansing** bar compns.)

IT Glycosides  
RL: TEM (Technical or engineered material use); USES (Uses)  
(alkyl polyglycosides; mild **cleansing** bar compns.)

IT Glycerides, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(almond, ethoxylated; mild **cleansing** bar compns.)

IT **Soaps**  
RL: TEM (Technical or engineered material use); USES (Uses)  
(bars, transparent; mild **cleansing** bar compns.)

IT Amides, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(coco, N,N-bis(hydroxyethyl); mild **cleansing** bar  
compns.)

IT Alcohols, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(ethoxylated, sulfated; mild **cleansing** bar compns.)

IT Polyoxyalkylenes, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(mild **cleansing** bar compns.)

IT Alcohols, uses  
RL: TEM (Technical or engineered material use); USES (Uses)  
(polyhydric; mild **cleansing** bar compns.)

IT 50-70-4, Sorbitol, uses 56-81-5, Glycerin, uses 57-11-4, Stearic  
acid, uses 57-55-6, Propylene glycol, uses 65-85-0D, Benzoic  
acid, esters with C12-15 alcs., uses 77-92-9, Citric acid, uses  
107-43-7D, Betaine, cocoamidopropyl 107-97-1D, Sarcosinic acid,  
cocoyl 107-97-1D, Sarcosinic acid, cocoyl, cocamide  
diethanolamides 136-26-5, Capramide DEA 137-16-6, Sodium lauroyl  
sarcosinate 334-48-5, Capric acid 822-16-2, Sodium stearate  
1562-00-1D, Sodium isethionate, cocoyl derivs., sodium salts  
9004-82-4, Sodium laureth-3 sulfate 25322-68-3,  
Polyethylene glycol 72300-24-4 106392-12-5, Pluronic F108

148619-01-6, Plantaren 2000

RL: TEM (Technical or engineered material use); USES (Uses)  
(mild **cleansing** bar compns.)

L43 ANSWER 11 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1997:696832 Document No. 127:347940 Mid-chain branched primary alkyl alkoxyated sulfate **surfactants, mixtures** thereof, and **detergent compositions** containing them. Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R. (Procter and Gamble Company, USA; Connor, Daniel Stedman; Cripe, Thomas Anthony; Vinson, Phillip Kyle; Willman, Kenneth William; Burckett-St. Laurent, James Charles T. R.). PCT Int. Appl. WO 9739087 A1 19971023, 114 pp. DESIGNATED STATES: W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG. (English). CODEN: PIXXD2. APPLICATION: WO 1997-US6471 19970416. PRIORITY: US 1996-15521 19960416; US 1996-15523 19960416; US 1996-32035 19961126.

AB Title **surfactants** CH<sub>3</sub>CH<sub>2</sub>(CH<sub>2</sub>)<sub>w</sub>CRH(CH<sub>2</sub>)<sub>x</sub>CR1H(CH<sub>2</sub>)<sub>y</sub>CR2H(CH<sub>2</sub>)<sub>z</sub>(EO/PO)mOSO<sub>3</sub>M, [total C atoms = 14-20 (including R, R1, and R2 but excluding the EO/PO moiety); R-R2 = H, C1-3 alkyl; when z = 1 R or R1 ≠ H; M is ≥1 cation; w, x, y = 0-13; z = ≥1; w + x + y + z = 8-14; m ≥0.01]; CH<sub>3</sub>CH<sub>2</sub>(CH<sub>2</sub>)<sub>x</sub>CR1H(CH<sub>2</sub>)<sub>y</sub>CR2H(CH<sub>2</sub>)<sub>z</sub>(EO/PO)mOSO<sub>3</sub>M [R1, R2 = H, C1-3 alkyl (both cannot be H); M = water-sol. cation; x, y, = 0-12; z ≥2; x + y + z = 11-14; m ≥0.01]; CH<sub>3</sub>(CH<sub>2</sub>)<sub>a</sub>CHMe(CH<sub>2</sub>)<sub>b</sub>CH<sub>2</sub>(EO/PO)mOSO<sub>3</sub>M [M = Na, K, Mg, (substituted) ammonium; a = 2-11; b = 1-10; a + b = 12 or 13; m ≥0.01]; etc.; are useful in laundry and cleaning compns., esp. granular and liq. **detergent** compns. used at low water temp.

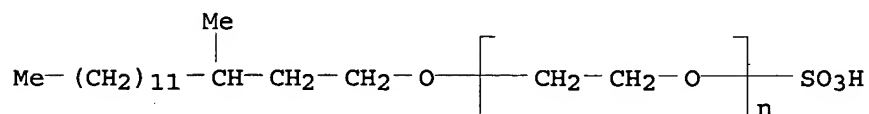
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198082-08-5D, salts 198082-09-6D, salts  
198082-10-9D, salts 198082-11-0D, salts  
198082-12-1D, salts 198082-13-2D, salts  
198082-14-3D, salts 198082-15-4D, salts  
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198082-36-9D, salts 198082-37-0D, salts  
198082-38-1D, salts 198082-39-2D, salts  
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198082-42-7D, salts 198082-43-8D, salts  
198082-44-9D, salts 198082-45-0D, salts

198082-46-1D, salts 198082-47-2D, salts

RL: TEM (Technical or engineered material use); USES (Uses)  
 (mid-chain branched primary alkyl alkoxyated sulfate  
**surfactants for cleaning compns.**)

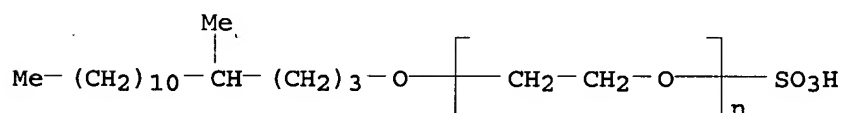
RN 198082-04-1 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(3-  
 methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



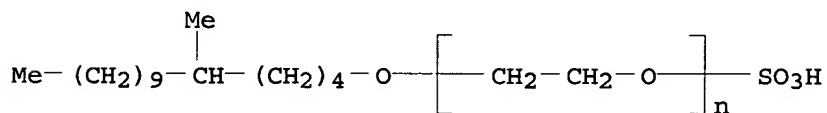
RN 198082-05-2 HCAPLUS

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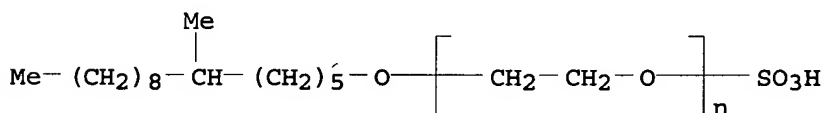
RN 198082-06-3 HCAPLUS

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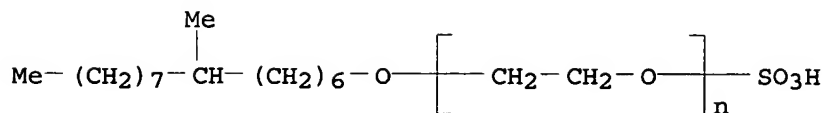
RN 198082-07-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(6-  
 methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)

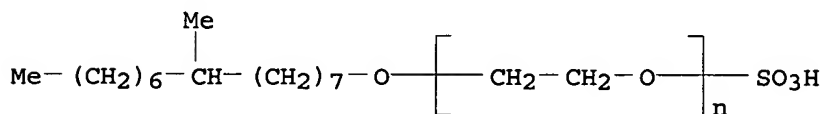


RN 198082-08-5 HCAPLUS

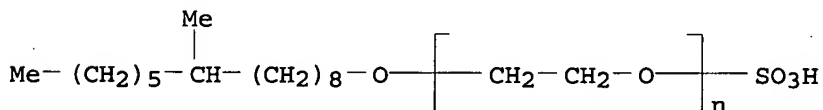
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-  
 methylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



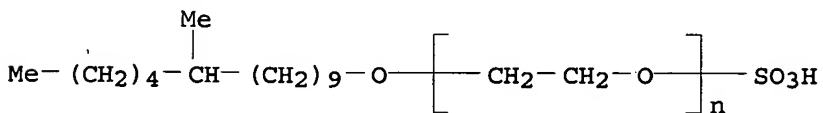
RN 198082-09-6 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(8-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



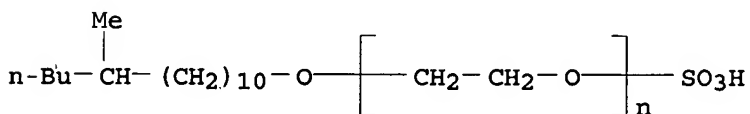
RN 198082-10-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



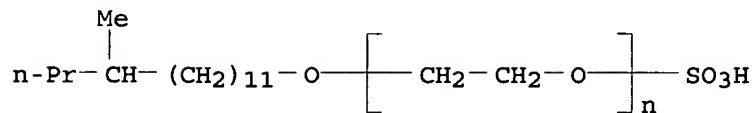
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 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(10-methylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



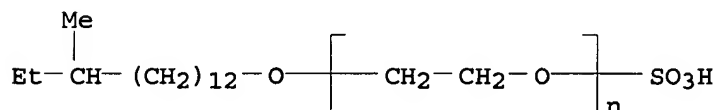
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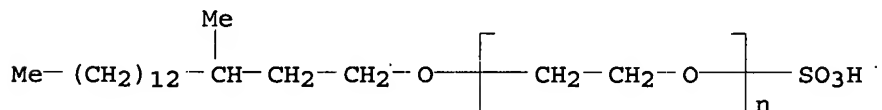
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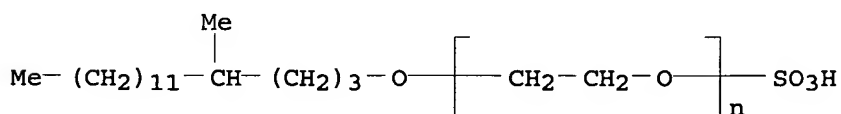
RN 198082-14-3 HCAPLUS

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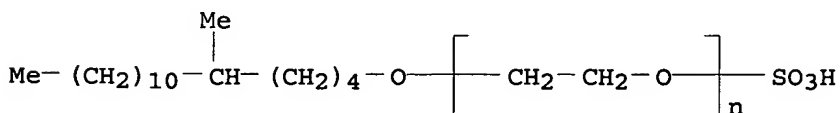
RN 198082-15-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(3-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-16-5 HCAPLUS

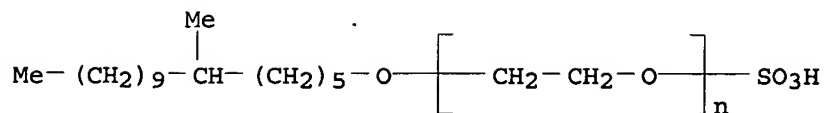
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RN 198082-17-6 HCAPLUS

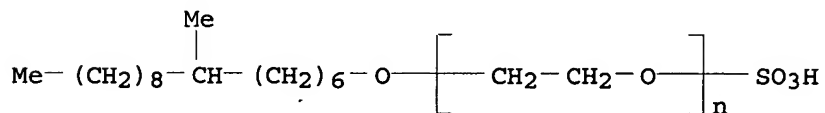
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(5-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)

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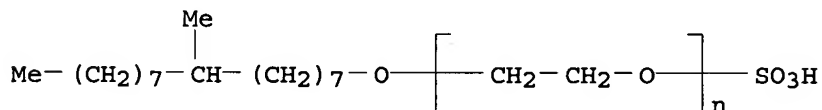
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(6-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)



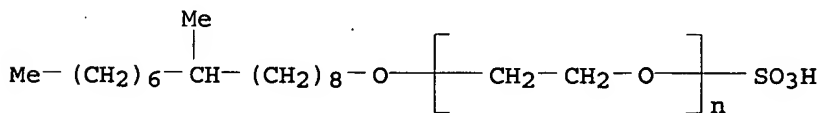
RN 198082-19-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



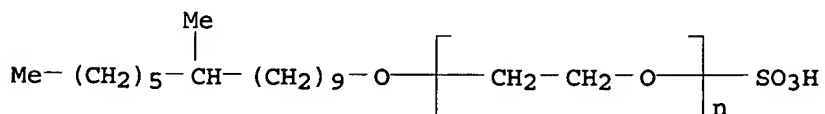
RN 198082-20-1 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(8-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



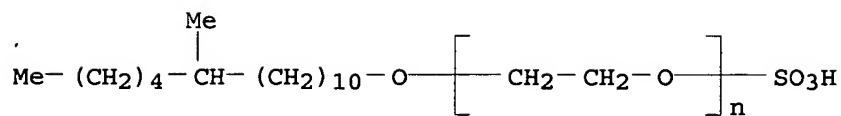
RN 198082-21-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



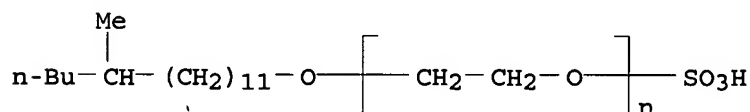
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 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(10-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



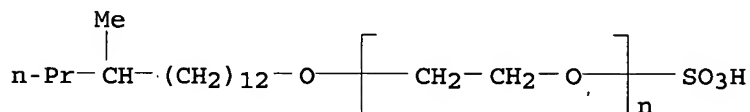
RN 198082-23-4 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(11-methylhexadecyl)oxy] - (9CI) (CA INDEX NAME)



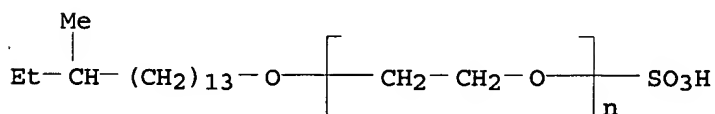
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 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(12-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)



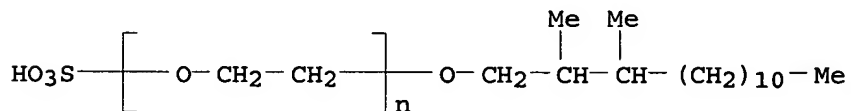
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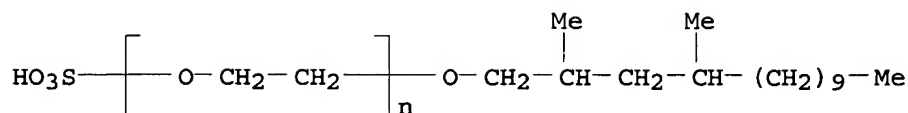
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 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(14-methylhexadecyl)oxy]- (9CI) (CA INDEX NAME)



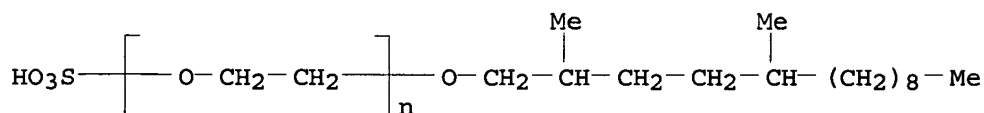
RN 198082-27-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,3-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)



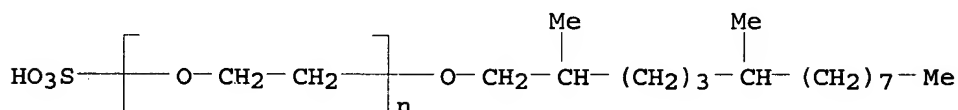
RN 198082-28-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,4-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)



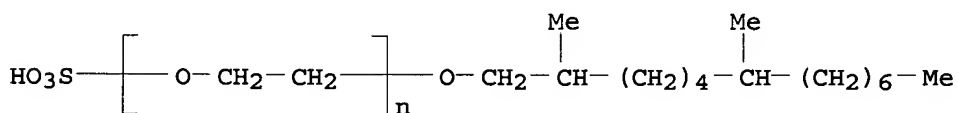
RN 198082-29-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,5-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

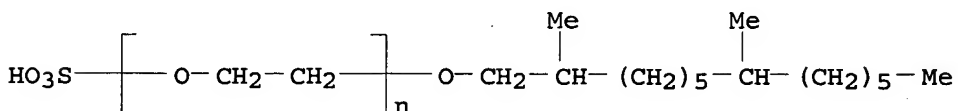
RN 198082-30-3 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,6-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

RN 198082-31-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,7-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

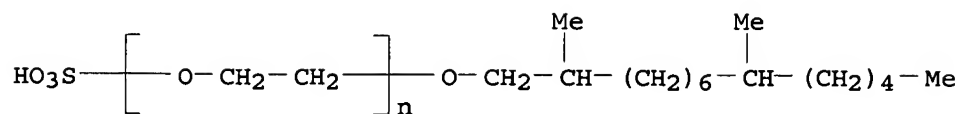
RN 198082-32-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,8-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

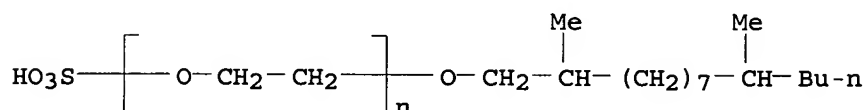
RN 198082-33-6 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,9-dimethyltetradecyl)oxy]- (9CI) (CA INDEX NAME)

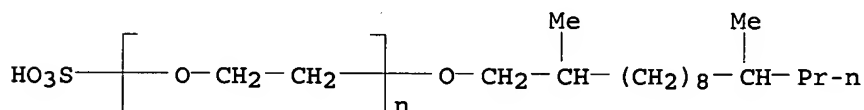




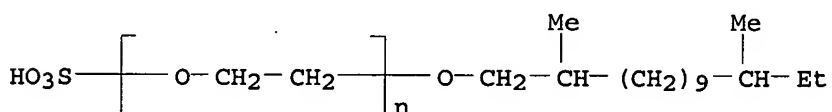
RN 198082-34-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,10-dimethyltetradecyl)oxy] - (9CI) (CA INDEX NAME)

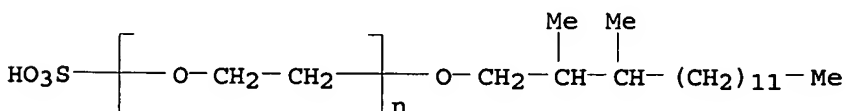
RN 198082-35-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,11-dimethyltetradecyl)oxy] - (9CI) (CA INDEX NAME)

RN 198082-36-9 HCAPLUS

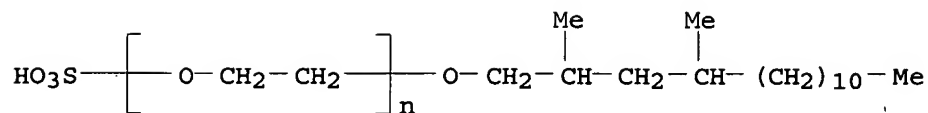
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,12-dimethyltetradecyl)oxy] - (9CI) (CA INDEX NAME)

RN 198082-37-0 HCAPLUS

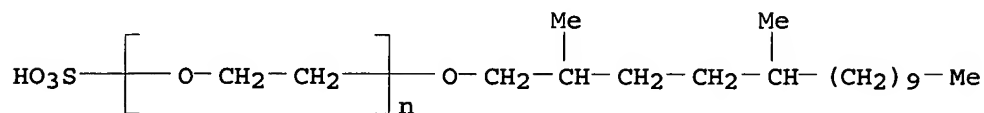
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,3-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)

RN 198082-38-1 HCAPLUS

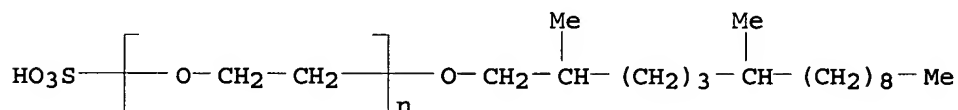
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,4-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



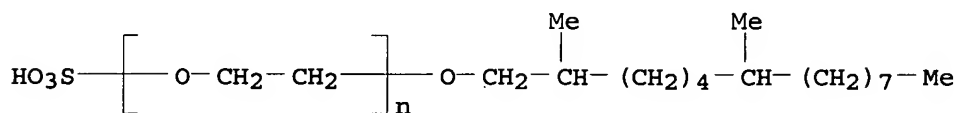
RN 198082-39-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,5-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



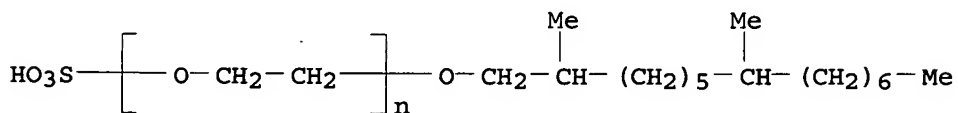
RN 198082-40-5 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,6-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



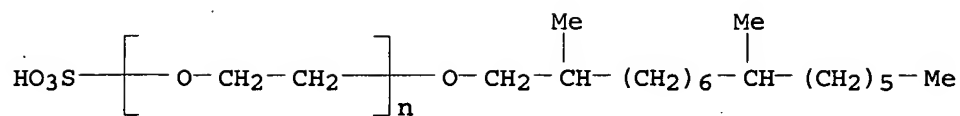
RN 198082-41-6 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,7-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



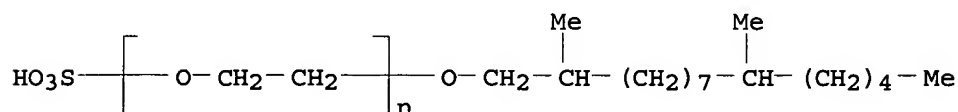
RN 198082-42-7 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,8-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



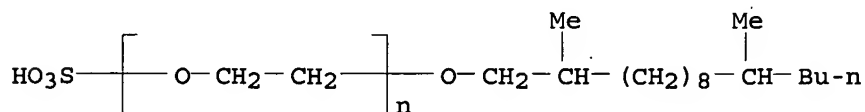
RN 198082-43-8 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,9-dimethylpentadecyl)oxy] - (9CI) (CA INDEX NAME)



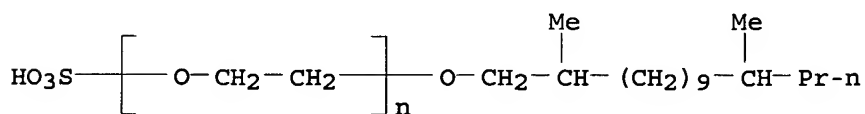
RN 198082-44-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,10-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



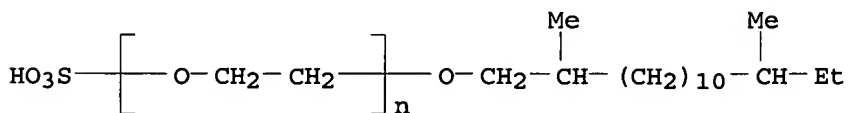
RN 198082-45-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,11-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



RN 198082-46-1 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,12-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



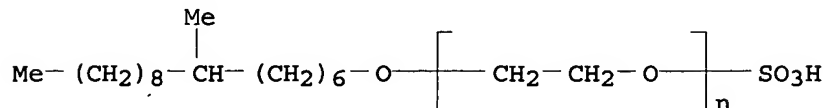
RN 198082-47-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(2,13-dimethylpentadecyl)oxy]- (9CI) (CA INDEX NAME)



IT 198080-23-8P 198080-24-9P 198080-25-0P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (prepn. of; mid-chain branched primary alkyl alkoxylated sulfate surfactants for cleaning compns.)

RN 198080-23-8 HCAPLUS

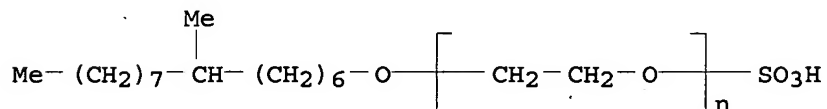
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylhexadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-24-9 HCAPLUS

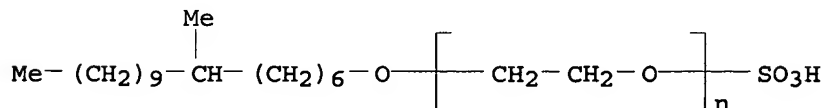
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylpentadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 198080-25-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(7-methylheptadecyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D001-14

ICS C11D001-29; C07C305-06; C07C305-10

CC 46-3 (Surface Active Agents and Detergents)

ST **surfactant** branched primary alkyl alkoxylate sulfate;  
cleaning compn branched alkyl alkoxylate **surfactant**;  
**detergent** branched alkyl alkoxylate **surfactant**

IT **Detergents**

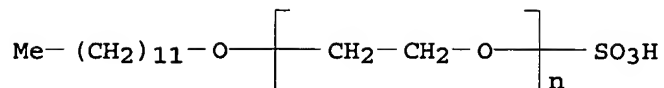
(dishwashing, granular; mid-chain branched primary alkyl  
alkoxylated sulfate **surfactants** for **cleaning**  
compns.)

IT **Detergents**

**Detergents**

- (dishwashing, liq.; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT Alcohols, uses  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (ethoxylated, C14-20, sodium sulfates; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT **Detergents**  
 (laundry, liq.; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT **Detergents**  
 (laundry; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT **Detergents**  
 (mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 198082-04-1D, salts 198082-05-2D, salts  
 198082-06-3D, salts 198082-07-4D, salts  
 198082-08-5D, salts 198082-09-6D, salts  
 198082-10-9D, salts 198082-11-0D, salts  
 198082-12-1D, salts 198082-13-2D, salts  
 198082-14-3D, salts 198082-15-4D, salts  
 198082-16-5D, salts 198082-17-6D, salts  
 198082-18-7D, salts 198082-19-8D, salts  
 198082-20-1D, salts 198082-21-2D, salts  
 198082-22-3D, salts 198082-23-4D, salts  
 198082-24-5D, salts 198082-25-6D, salts  
 198082-26-7D, salts 198082-27-8D, salts  
 198082-28-9D, salts 198082-29-0D, salts  
 198082-30-3D, salts 198082-31-4D, salts  
 198082-32-5D, salts 198082-33-6D, salts  
 198082-34-7D, salts 198082-35-8D, salts  
 198082-36-9D, salts 198082-37-0D, salts  
 198082-38-1D, salts 198082-39-2D, salts  
 198082-40-5D, salts 198082-41-6D, salts  
 198082-42-7D, salts 198082-43-8D, salts  
 198082-44-9D, salts 198082-45-0D, salts  
 198082-46-1D, salts 198082-47-2D, salts  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 7740-48-9P 198079-67-3P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and alkoxylation of; in prepn. of mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 68760-65-6P, (6-Hydroxyhexyl)triphenylphosphonium bromide  
 198218-62-1P 198218-63-2P 198218-64-3P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (prepn. and reaction of; in prepn. of mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)

- IT 198080-23-8P 198080-24-9P 198080-25-0P  
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(prepn. of; mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- IT 112-12-9, 2-Undecanone 603-35-0, Triphenylphosphine, reactions  
693-54-9, 2-Decanone 4286-55-9, 6-Bromo-1-hexanol 6175-49-1,  
2-Dodecanone 7790-94-5, Chlorosulfonic acid  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of; in prepn. of mid-chain branched primary alkyl alkoxyated sulfate **surfactants** for **cleaning** compns.)
- L43 ANSWER 12 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
1997:400484 Document No. 127:96837 Liquid **detergent** **compositions** comprising salts of  $\alpha$ -sulfonated fatty acid methyl esters, and anionic **surfactants**. Sajic, Branko; Ryklin, Irma; Frank, Brian L.; Rao, Y. Kameshwer (Stepan Company, USA). U.S. US 5637758 A 19970610, 18 pp., Cont.-in-part of U.S. Ser. No. 135,288. (English). CODEN: USXXAM. APPLICATION: US 1995-486360 19950607. PRIORITY: US 1993-135288 19931012.
- AB The title **detergent** compns. contain a mixt. of **surfactants** comprising: (a) a **hydrotropic surfactant** which is a blend of a mono-salt of an  $\alpha$ -sulfonated Me or Et ester of a fatty acid having from 12-16 carbon atoms and a di-salt of an  $\alpha$ -sulfonated fatty acid, the ratio of mono-salt to di-salt being at least about 2:1; (b) an anionic **surfactant**; (c) an auxiliary foam stabilizing **surfactant**; and (d) a divalent cation selected from  $\text{Ca}^{++}$  and  $\text{Mg}^{++}$ , where the amt. of **surfactant** present in the compn. as a salt of the divalent cation is at least 30% of the mixt. of **surfactants**, the wt. ratio of the **hydrotropic surfactant** to anionic **surfactant** is 1:1.5-1:8, and the amt. of the mixt. of **surfactants** in the compn. is 20-90%. The **detergent** compns. comprise crit. amts. of divalent cations and a min. amt. of the mixt. of a salt of  $\alpha$ -sulfonated Me ester of a fatty acid, anionic **surfactants** and foam stabilizing auxiliary **surfactants**.
- IT 32612-48-9, Steol CA460  
RL: TEM (Technical or engineered material use); USES (Uses)  
(liq. **detergent** compns. comprising salts of  $\alpha$ -sulfonated fatty acid Me esters, and anionic **surfactants**)
- RN 32612-48-9 HCAPLUS  
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-, ammonium salt (9CI) (CA INDEX NAME)



IC ICM C07C321-14  
 INCL 560147000  
 CC 46-3 (Surface Active Agents and Detergents)  
 ST liq **detergent** sulfonated fatty acid; anionic  
**surfactant liq detergent; hydrotropic**  
**surfactant liq detergent**  
 IT Sulfonic acids, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (1-alkene, salts; liq. **detergent** compns. comprising  
 salts of α-sulfonated fatty acid Me esters, and anionic  
**surfactants**)  
 IT Amides, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (C12-14, N-(hydroxyethyl), Ninol LMP; liq. **detergent**  
 compns. comprising salts of α-sulfonated fatty acid Me  
 esters, and anionic **surfactants**)  
 IT Alcohols, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (C9-11, ethoxylated; liq. **detergent** compns. comprising  
 salts of α-sulfonated fatty acid Me esters, and anionic  
**surfactants**)  
 IT Sulfonates  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkanesulfonates; liq. **detergent** compns. comprising  
 salts of α-sulfonated fatty acid Me esters, and anionic  
**surfactants**)  
 IT Glycosides  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (alkyl polyglycosides; liq. **detergent** compns.  
 comprising salts of α-sulfonated fatty acid Me esters, and  
 anionic **surfactants**)  
 IT Fatty acids, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (alpha-sulfonated, esters; liq. **detergent** compns.  
 comprising salts of α-sulfonated fatty acid Me esters, and  
 anionic **surfactants**)  
 IT **Surfactants**  
 (anionic; liq. **detergent** compns. comprising salts of  
 α-sulfonated fatty acid Me esters, and anionic  
**surfactants**)  
 IT Amides, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (coco, N-(hydroxyethyl), Ninol 40CO; liq. **detergent**  
 compns. comprising salts of α-sulfonated fatty acid Me  
 esters, and anionic **surfactants**)  
 IT Alcohols, uses

Amides, uses

RL: TEM (Technical or engineered material use); USES (Uses)  
(fatty; liq. **detergent** compns. comprising salts of  
 $\alpha$ -sulfonated fatty acid Me esters, and anionic  
**surfactants**)

IT **Surfactants**

(**hydrotropic**; liq. **detergent** compns.  
comprising salts of  $\alpha$ -sulfonated fatty acid Me esters, and  
anionic **surfactants**)

IT **Detergents**

(liq. **detergent** compns. comprising salts of  
 $\alpha$ -sulfonated fatty acid Me esters, and anionic  
**surfactants**)

IT **Betaines**

**Sulfobetaines**

RL: TEM (Technical or engineered material use); USES (Uses)  
(liq. **detergent** compns. comprising salts of  
 $\alpha$ -sulfonated fatty acid Me esters, and anionic  
**surfactants**)

IT **Amine oxides**

RL: TEM (Technical or engineered material use); USES (Uses)  
(long-chain; liq. **detergent** compns. comprising salts of  
 $\alpha$ -sulfonated fatty acid Me esters, and anionic  
**surfactants**)

IT **Fatty acids, uses**

RL: TEM (Technical or engineered material use); USES (Uses)  
(sulfo, salt; liq. **detergent** compns. comprising salts  
of  $\alpha$ -sulfonated fatty acid Me esters, and anionic  
**surfactants**)

IT 98-11-3D, Benzenesulfonic acid, alkyl derivs., salts, uses  
142-58-5, Myristic acid monoethanolamide 142-78-9, Lauric acid  
monoethanolamide 627-83-8, Ethylene glycol distearate 693-33-4  
1300-72-7, Sodium xylene sulfonate 1309-42-8, Magnesium hydroxide  
1643-20-5, Ammonyx LO 1847-58-1, Sodium lauryl sulfo acetate  
7487-88-9, Magnesium sulfate, uses 7664-93-9D, Sulfuric acid,  
alkyl esters, sodium salts, uses 7786-30-3, Magnesium chloride,  
uses 28348-53-0, Sodium cumene sulfonate 32612-48-9,  
Steol CA460 106716-27-2, Amphosol CA 156014-44-7, Glucopon 625  
163663-07-8, Alpha-Step MC 48

RL: TEM (Technical or engineered material use); USES (Uses)  
(liq. **detergent** compns. comprising salts of  
 $\alpha$ -sulfonated fatty acid Me esters, and anionic  
**surfactants**)

L43 ANSWER 13 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1997:257267 Document No. 126:239884 Polyoxyethylene sulfate-based  
cleaner **composition**. Betsupu, Koji; Komya, Kaoru (Asahi  
Denka Kogyo KK, Japan). Jpn. Kokai Tokkyo Koho JP 09040994 A2  
19970210 Heisei, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP  
1995-195399 19950731.

AB Alkyl benzenesulfonate anionic **surfactant**-free cleaning  
compns. contain (A) 5-25% polyoxyethylene alkyl (alkenyl) ether  
sulfate salt and (B) 5-15% nonionic **surfactants**, and the  
compn. contains  $\geq 15\%$  **surfactants** and has A/B ratio  
0.5-2/1. A compn. contained polyoxyethylene lauryl ether sulfate  
magnesium salt 8, polyoxyethylene lauryl ether 5, lauric acid



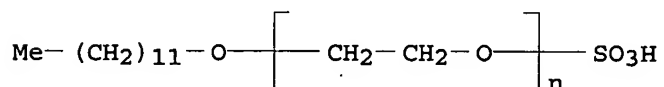
diethanolamide 5, EtOH 5%, and balance water.

IT 9004-82-4, Polyoxyethylene lauryl ether sulfate sodium salt  
27233-34-7 34431-26-0 62755-21-9  
72427-94-2 87569-97-9

RL: TEM (Technical or engineered material use); USES (Uses)  
(polyoxyethylene sulfate-based **cleaner** compn.)

RN 9004-82-4 HCAPLUS

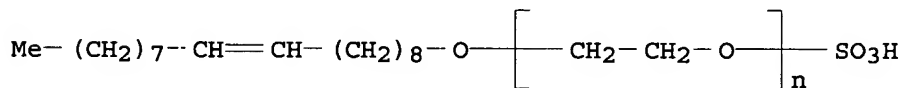
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
sodium salt (9CI) (CA INDEX NAME)



● Na

RN 27233-34-7 HCAPLUS

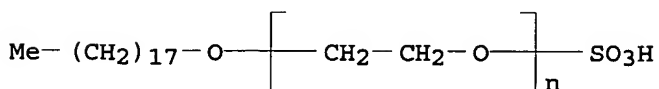
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9Z)-9-octadecenyl]-, sodium salt (9CI) (CA INDEX NAME)



● Na

RN 34431-26-0 HCAPLUS

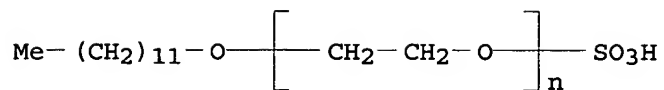
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(octadecyloxy)-,  
sodium salt (9CI) (CA INDEX NAME)



● Na

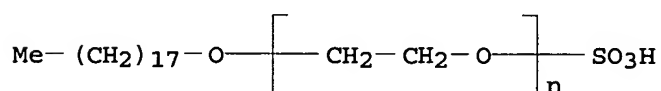
RN 62755-21-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
magnesium salt (9CI) (CA INDEX NAME)



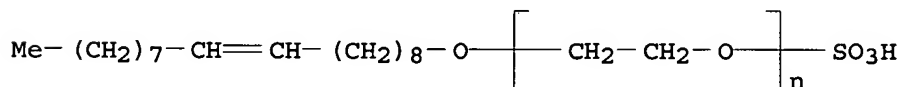
● 1/2 Mg

RN 72427-94-2 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(octadecyloxy)-, magnesium salt (9CI) (CA INDEX NAME)



● 1/2 Mg

RN 87569-97-9 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -[(9Z)-9-octadecenyl]oxy]-, magnesium salt (9CI) (CA INDEX NAME)



● 1/2 Mg

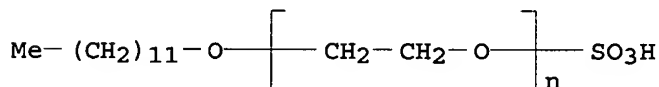
IC ICM C11D001-29  
 ICS C11D001-83; C11D001-29; C11D001-72; C11D001-52  
 CC 46-3 (Surface Active Agents and Detergents)  
 ST polyoxyethylene sulfate cleaner compn; nonionic surfactant cleaner compn; lauric acid diethanolamide cleaner compn  
 IT **Surfactants**  
 (nonionic; polyoxyethylene sulfate-based cleaner compn.)  
 IT **Detergents**  
 (polyoxyethylene sulfate-based cleaner compn.)  
 IT 64-17-5, Ethanol, uses 120-40-1, Lauric acid diethanolamide 9002-92-0, Polyoxyethylene lauryl ether 9004-82-4, Polyoxyethylene lauryl ether sulfate sodium salt 27233-34-7 34431-26-0 62755-21-9 72427-94-2 87569-97-9  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (polyoxyethylene sulfate-based cleaner compn.)

L43 ANSWER 14 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
 1997:189703 Document No. 126:187652 Diamine salt-based foamable  
 cleaning **compositions**. Imoto, Hiroyuki; Yahagi, Kazuyuki  
 (Kao Corp, Japan). Jpn. Kokai Tokkyo Koho JP 09003483 A2 19970107  
 Heisei, 5 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP  
 1995-157443 19950623.

AB The compns. comprise anionic **surfactants** of diamine salts  
 comprising a pair ion of  $\text{HN}+\text{X1X2}(\text{CH2})_m\text{CA1A2}(\text{CH2})_n\text{N}+\text{X3X4H}$  (I),  
 optionally, cationic polymers. Thus, a **shampoo** compn. was  
 prepd. from an aq. soln. contg. polyoxyethylene lauryl ether sodium  
 sulfate 12.0, a salt of  $\text{C12H25OSO3H}$  and I ( $\text{X1-4} = \text{H}$ ;  $\text{A1-2 H}$ ;  $m, n =$   
 1,  $Y = \text{Cl}$ ) 2, JR 400 0.3 and SM 8702C 1.0% and additives.

IT **9004-82-4**, Polyoxyethylene lauryl ether sodium sulfate  
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM  
 (Technical or engineered material use); BIOL (Biological study);  
 USES (Uses)  
 (compns. contg.; diamine salt-based foamable **cleaning**  
 compns.)

RN **9004-82-4** HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D001-12  
 ICS A61K007-075; A61K007-50; C11D003-37

CC **46-3** (Surface Active Agents and Detergents)  
 Section cross-reference(s): 62

ST cleaning compn diamine salt; polyoxyethylene lauryl ether salt  
 cleaning; cationic cellulose diamine salt **shampoo**;  
 silicone diamine salt cleaning compn; anionic **surfactant**  
 diamine sulfate

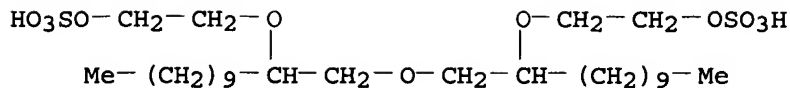
IT Polysiloxanes, uses  
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM  
 (Technical or engineered material use); BIOL (Biological study);  
 USES (Uses)  
 (BY 22-029; diamine salt-based foamable **cleaning**  
 compns.)

IT **Surfactants**  
 (anionic; diamine salt-based foamable **cleaning** compns.)

IT Quaternary ammonium compounds, uses  
 RL: BUU (Biological use, unclassified); PRP (Properties); TEM  
 (Technical or engineered material use); BIOL (Biological study);  
 USES (Uses)  
 (compns. contg.; diamine salt-based foamable **cleaning**  
 compns.)

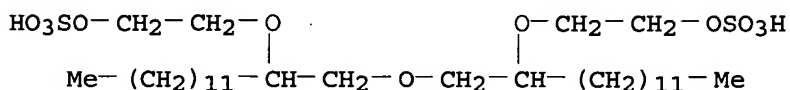
IT **Detergents**  
**Shampoos**

- (diamine salt-based foamable **cleaning** compns.)
- IT 10517-44-9 34989-00-9 52198-63-7 150507-32-7 187403-33-4  
187403-37-8  
RL: BUU (Biological use, unclassified); PRP (Properties); TEM  
(Technical or engineered material use); BIOL (Biological study);  
USES (Uses)  
(anionic **surfactants**; diamine salt-based foamable  
**cleaning** compns.)
- IT 102-71-6D, amidoamino derivs. 627-83-8, Ethylene glycol distearate  
**9004-82-4**, Polyoxyethylene lauryl ether sodium sulfate  
20526-58-3D, Sulfosuccinic acid sodium salt, alkyl deriv.  
26590-05-6, Merquat 550 81859-24-7 143711-48-2, SM 8702C  
177191-09-2  
RL: BUU (Biological use, unclassified); PRP (Properties); TEM  
(Technical or engineered material use); BIOL (Biological study);  
USES (Uses)  
(compns. contg.; diamine salt-based foamable **cleaning**  
compns.)
- L43 ANSWER 15 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
1997:18389 Document No. 126:48619 Oligomeric alkyl ether sulfates and  
their use in cleaning **compositions**. Ricca, Jean-Marc  
(Rhone-Poulenc Chimie SA, Fr.; Ricca, Jean-Marc). PCT Int. Appl. WO  
9635663 A1 19961114, 36 pp. DESIGNATED STATES: W: AL, AM, AU, BB,  
BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KP, KR, LK, LR, LT, LV, MD,  
MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN,  
AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH,  
CI, CM, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE,  
NL, PT, SE, SN, TD, TG. (French). CODEN: PIXXD2. APPLICATION: WO  
1996-FR715 19960510. PRIORITY: FR 1995-5597 19950511.
- AB Oligomeric alkyl ether sulfates having the general formula  
 $Z[CH_2CH(CH_2R_1)O(CH_2CH_2O)_mSO_3M]_2$  [I; M = alkali metal, alk. earth  
metal, quaternary ammonium; each R1 = O(CHR2CH2O)mQ; each Q = C4-18  
alkyl, alkoxy, alkenyl, or alkenyloxy; R2 = H, (OCH2CH2)qOSO3M; Z =  
(OCH2CHR3)pO; R3 = H, O(CHR2CH2O)mQ, (OCH2CH2)qOSO3M; m, q = 1-20; p  
= 0-20] are useful as **surfactants** in cleaning, cosmetic  
and toothpaste compns. Reaction of Me(CH2)9OCH2CH(OH)CH2OH with  
decyl glycidyl ether in toluene in the presence of KOH gave  
[Me(CH2)9OCH2CH(OH)CH2]2O, which reacted with ethylene sulfate under  
similar conditions to give I (M = Na, R1 = decyloxy, m = 1) as a  
hygroscopic white powder with crit. micelle concn. 0.028 mM.
- IT **184951-07-3P 184951-08-4P 184951-14-2P**  
RL: IMF (Industrial manufacture); PRP (Properties); PREP  
(Preparation)  
(prepn. of oligomeric alkyl ether sulfates and their use in  
**cleaning** compns.)
- RN 184951-07-3 HCAPLUS  
CN Ethanol, 2,2'-[oxybis[(1-decyl-2,1-ethanediyl)oxy]]bis-,  
bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



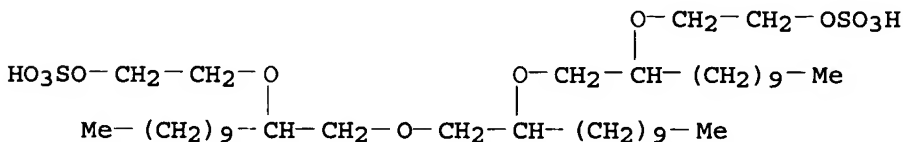
●2 Na

RN 184951-08-4 HCAPLUS  
 CN Ethanol, 2,2'-[oxybis[(1-dodecyl-2,1-ethanediyl)oxy]]bis-,  
 bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

RN 184951-14-2 HCAPLUS  
 CN 3,6,9,12-Tetraoxatetradecane-1,14-diol, 4,7,11-tris(decyl)-,  
 bis(hydrogen sulfate), disodium salt (9CI) (CA INDEX NAME)



●2 Na

IC ICM C07C305-10  
 ICS C11D001-16; A61K007-16  
 CC 46-3 (Surface Active Agents and Detergents)  
 Section cross-reference(s): 62  
 ST anionic **surfactant** alkyl ether sulfate; **detergent**  
 compn anionic **surfactant**; cosmetic compn anionic  
**surfactant**; toothpaste compn anionic **surfactant**  
 IT **Surfactants**  
 (anionic; prepn. of oligomeric alkyl ether sulfates and their use  
 in **cleaning** compns.)  
 IT Cosmetics  
 Dentifrices  
**Detergents**  
 (prepn. of oligomeric alkyl ether sulfates and their use in  
**cleaning** compns.)  
 IT 184951-07-3P 184951-08-4P 184951-10-8P

184951-12-0P 184951-14-2P

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)

(prepn. of oligomeric alkyl ether sulfates and their use in **cleaning** compns.)

IT 1072-53-3P, Ethylene sulfate 3647-12-9P, Bis(2-hydroxydodecyl) ether 124029-03-4P, Bis(2-hydroxytetradecyl) ether 134450-08-1P 184951-04-0P 184951-05-1P 184951-06-2P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of oligomeric alkyl ether sulfates and their use in **cleaning** compns.)

IT 1119-87-5, 1,2-Dodecanediol 1561-07-5, 3-Dodecyloxy-1,2-propanediol 2461-18-9, Dodecyl glycidyl ether 2855-19-8, 1,2-Epoxydodecane 3234-28-4, 1,2-Epoxytetradecane 3497-06-1, Decyl glycidyl ether 3741-38-6, Ethylene sulfite 10430-97-4, 3-Decyloxy-1,2-propanediol 21129-09-9, 1,2-Tetradecanediol

RL: RCT (Reactant); RACT (Reactant or reagent)

(prepn. of oligomeric alkyl ether sulfates and their use in **cleaning** compns.)

L43 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1997:5556 Document No. 126:48616 Optimization of a liquid

**detergent formulation.** Moussaoui, M.; Saci, L.;

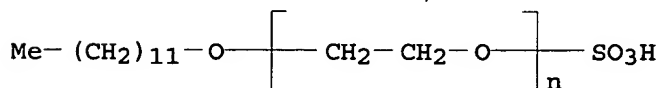
Zaid, T. Ahmed; Chitour, C. E. (Departement de genie chimique, Ecole nationale polytechnique, Algiers, Algeria). Journal de la Societe Chimique de Tunisie, 3(11), 839-846 (French) 1996. CODEN: JSCTDP. ISSN: 0253-1208. Publisher: Societe Chimique de Tunisie.

AB Plackett-Burman exptl. design is applied to a five-component dishwasher liq. **detergent** formulation in order to det. which components affect five different properties of the formulation. Regression anal. and linear programming are then applied to the results of anal. in order to obtain a low cost formulation which matches or exceeds the properties of a com. available product.

IT 9004-82-4, Sodium lauryl ether sulfate

RL: TEM (Technical or engineered material use); USES (Uses) (**detergent** component; optimization of liq. dishwashing **detergent** formulation by regression anal. and linear programming)

RN 9004-82-4 HCAPLUS

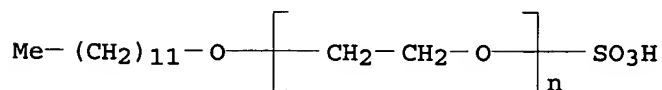
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-, sodium salt (9CI) (CA INDEX NAME)

● Na

CC 46-3 (Surface Active Agents and Detergents)

ST liq dishwashing **detergent** formulation optimization

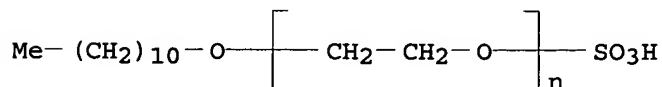
- IT Amides, uses  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (coco, N,N-bis(hydroxyethyl), **detergent** component;  
 optimization of liq. dishwashing **detergent** formulation  
 by regression anal. and linear programming)
- IT **Detergents**  
 (dishwashing; optimization of liq. dishwashing **detergent**  
 formulation by regression anal. and linear programming)
- IT Optimization  
 (optimization of liq. dishwashing **detergent** formulation  
 by regression anal. and linear programming)
- IT 57-13-6, Urea, uses 657-84-1, Sodium toluenesulfonate  
 9004-82-4, Sodium lauryl ether sulfate 25155-30-0, Sodium  
 dodecylbenzenesulfonate  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**detergent** component; optimization of liq. dishwashing  
**detergent** formulation by regression anal. and linear  
 programming)
- L43 ANSWER 17 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
 1992:196629 Document No. 116:196629 Liquid **detergent**  
**compositions**. Miyashita, Yoko; Nomura, Koki; Nishino,  
 Takashi; Ota, Seiichi (Lion Corp., Japan). Jpn. Kokai Tokkyo Koho  
 JP 03273100 A2 19911204 Heisei, 5 pp. (Japanese). CODEN: JKXXAF.  
 APPLICATION: JP 1990-72483 19900320.
- AB The title compns., esp. useful for cleaning oily stains from  
 surfaces of stainless steel in kitchens, have pH  $\geq 9$  and  
 comprise 0.1-8% **surfactants** selected from long-chain  
 olefin sulfonate salts and polyoxyethylene long-chain alkyl ether  
 sulfate salts and 1-20% of slightly water-sol. solvents  
 C<sub>4</sub>H<sub>9</sub>O(C<sub>2</sub>H<sub>4</sub>O)<sub>m</sub>(C<sub>3</sub>H<sub>6</sub>O)<sub>n</sub>H (I: m = 0.5-1.5; n = 1-3). Thus, an aq.  
 compn. with pH 11.9 contg. C<sub>14</sub>  $\alpha$ -olefin sulfonic acid Na salt  
 5.0, monoethanolamine 6.0, fragrance 0.1, and I (m = 1; n = 1.25)  
 7.0% was used to remove oils from SUS 304 plate to show a finished  
 surface with good gloss, vs. poor using a compn. contg. I (m = 1, n  
 = 3.60) instead.
- IT 9004-82-4 9014-91-9 27731-62-0  
 54116-08-4  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**surfactants**, liq. **detergents** contg., for  
 stainless steel **cleaning**)
- RN 9004-82-4 HCAPLUS
- CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

RN 9014-91-9 HCAPLUS

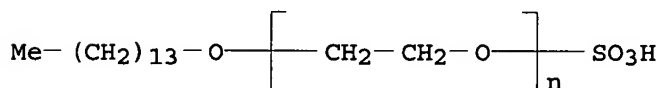
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(undecyloxy)-,  
sodium salt (9CI) (CA INDEX NAME)



● Na

RN 27731-62-0 HCAPLUS

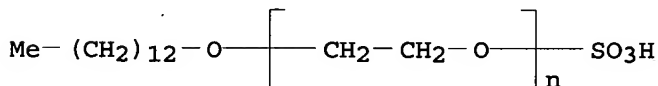
CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(tetradecyloxy)-,  
sodium salt (9CI) (CA INDEX NAME)



● Na

RN 54116-08-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(tridecyloxy)-,  
sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D010-02

ICI C11D010-02, C11D007-50, C11D001-14, C11D001-29, C11D007-26

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 55

ST liq **detergent** stainless steel cleaning; solvent

polyoxyalkylene ether **detergent**

IT **Detergents**

(liq., ethylene oxide-propylene oxide copolymer Bu ether and  
**surfactants** in, for stainless steel)

IT 11109-50-5, SUS 304

RL: PROC (Process)

(**cleaning** of, liq. **detergents** for)

IT 9038-95-3, Ethylene oxide-propylene oxide copolymer butyl ether

RL: USES (Uses)

(liq. **detergents** contg., as solvents, for stainless)



steel cleaning)

IT 9004-82-4 9014-91-9 27731-62-0  
54116-08-4

RL: TEM (Technical or engineered material use); USES (Uses)  
(surfactants, liq. detergents contg., for  
stainless steel cleaning)

L43 ANSWER 18 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1990:141785 Document No. 112:141785 **Detergent**

**compositions** containing sulfotricarballylates. Fujii,  
Yasuyuki; Saijo, Hiroyuki; Deguchi, Katsuhiko (Kao Corp., Japan).  
Jpn. Kokai Tokkyo Koho JP 01242696 A2 19890927 Heisei, 4 pp.  
(Japanese). CODEN: JKXXAF. APPLICATION: JP 1988-68929 19880323.

AB The title compns. with good foaming and rinsing property in water of  
various hardness comprise R1O2CCH2C(SO3X)(CO2R2)CH2CO2R3 (I) and/or  
R1O2CCH(SO3X)CH(CO2R2)CH2CO2R3 (II) (R1-3 = H, C1-20 alkyl or  
alkenyl, alkali metal, alk. earth metal, org. amine; ≥2 of  
R1-3 is alkyl or alkenyl, total C no. of R1-3 is 12-24; X = alkali  
metal, alk. earth metal, org. amine) and ≥1  
**surfactant** selected from R4O(C2H4O)nSO3X (III; R4 = C10-18  
alkyl, alkenyl, or alkylphenyl; av. n = 1-14), R5O(C2H4O)mH (IV; R5  
= C8-20 alkyl, alkenyl, or alkylphenyl; av. m = 1-20), and  
4-R6C6H4SO3X (R6 = C9-15 alkyl or alkenyl). Thus, an aq.  
**detergent** contg. I-II (1/1) mixt. (R1-3 = CH2CHEt2, X = Na)  
12, III (R4 = dodecyl, X = Na, n = 3) 8, and IV (R5 = dodecyl, m =  
7) 8% showed excellent oil **detergency**, foaming ability,  
and rinsing property in water with hardness 3.5-10°.

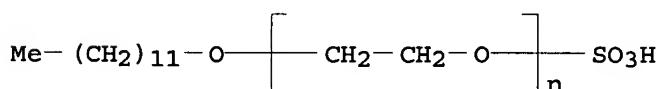
IT 9004-82-4

RL: USES (Uses)

(**detergents**, contg. sulfotricarballylates, with good  
**rinsing** and foaming property)

RN 9004-82-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(dodecyloxy)-,  
sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM C11D001-28

ICS C11D001-83

ICI C11D001-83, C11D001-22, C11D001-28, C11D001-29, C11D001-72

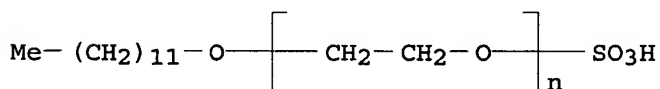
CC 46-3 (Surface Active Agents and Detergents)

ST sulfotricarballylate blend **detergent** rinsing foaming;  
nonionic **surfactant detergent**  
sulfotricarballylate; anionic **surfactant detergent**  
sulfotricarballylate; polyoxyalkylene **surfactant**  
**detergent** sulfotricarballylate

IT **Detergents**

(contg. sulfotricarballylates and **surfactant**, with good

- IT     **rinsing** and foaming property)  
**Detergents**  
(dishwashing, contg. sulfotricarballylates and  
**surfactants**, with good **rinsing** and foaming  
property)
- IT     119598-68-4   125111-19-5   125111-20-8   125111-21-9   125111-22-0  
125111-23-1  
RL: TEM (Technical or engineered material use); USES (Uses)  
(**detergents** contg., with good **rinsing** and  
foaming property)
- IT     9002-92-0, Poly(oxyethylene) dodecyl ether **9004-82-4**  
25155-30-0, Sodium dodecylbenzenesulfonate  
RL: USES (Uses)  
(**detergents**, contg. sulfotricarballylates, with good  
**rinsing** and foaming property)
- L43   ANSWER 19 OF 26   HCAPLUS   COPYRIGHT 2005 ACS on STN  
1990:79994   Document No. 112:79994   Dishwashing **detergent**  
**compositions**. Monma, Tsunemi; Tsuru, Tatsuya; Sakuma, Yumi  
(Kunimine Industries Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP  
01182399 A2 19890720 Heisei, 6 pp. (Japanese). CODEN: JKXXAF.  
APPLICATION: JP 1988-3681 19880113.
- AB     The title compns. useful for metal, glass, porcelain, china, etc.,  
contain layered silicate minerals 100, anionic **surfactants**  
50-1000, and amphoteric **surfactants** 50-1000 parts. Thus,  
an aq. soln. contg. 3 parts Smectone SA and 0.2 part CMC was blended  
with Tohol N 230X (lauryldiethanolamide) 5, Runox S 40T  
(dodecylbenzenesulfonic acid triethanolamine salt) 10, and Obanol  
516 10 parts and dild. with H2O to give a dishwashing  
**detergent** with good handle.
- IT     **9004-82-4**, Alscoap TAP 30  
RL: USES (Uses)  
(dishwashing **detergents** contg. layered silicates and,  
with good handle)
- RN     **9004-82-4**   HCAPLUS  
CN     Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
sodium salt (9CI)   (CA INDEX NAME)

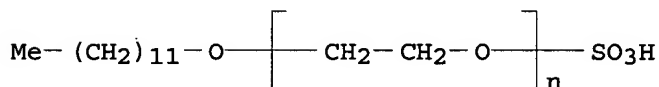


● Na

- IC     ICM   C11D001-94  
ICS   C11D003-12  
ICI   C11D001-94, C11D001-12, C11D001-88, C11D003-12  
CC    **46-3** (Surface Active Agents and Detergents)  
ST    dishwashing **detergent** layered silicate salt; anionic  
**surfactant** dishwashing **detergent** handle;  
amphoteric **surfactant** dishwashing **detergent**  
handle

- IT Betaines  
RL: USES (Uses)  
(coco alkyldimethyl, dishwashing **detergents** contg. layered silicates and, Nissan Anon BF, with good handle)
- IT **Detergents**  
(dishwashing, contg. layered silicates and anionic **surfactants** and amphoteric **surfactants**, with good handle)
- IT Silicates, uses and miscellaneous  
RL: USES (Uses)  
(layered, dishwashing **detergents** contg. **surfactants** and, with good handle)
- IT 151-21-3, Sodium lauryl sulfate, uses and miscellaneous  
RL: USES (Uses)  
(dishwashing **detergents** contg. layered silicates and, Aliscoap LN 40A, with good handle)
- IT 27323-41-7, Dodecylbenzenesulfonic acid triethanolamine salt  
RL: USES (Uses)  
(dishwashing **detergents** contg. layered silicates and, Runox S 40T, with good handle)
- IT 120-40-1, Lauryl diethanolamide  
RL: USES (Uses)  
(dishwashing **detergents** contg. layered silicates and, Tohol N 230X, with good handle)
- IT **9004-82-4**, Aliscoap TAP 30 51811-79-1, Gafac PE 510 95145-42-9, Obanol 516  
RL: USES (Uses)  
(dishwashing **detergents** contg. layered silicates and, with good handle)
- IT 1318-93-0, Kunipia F, uses and miscellaneous 53320-86-8, Laponite XLS 120668-89-5, Smectone SA  
RL: USES (Uses)  
(dishwashing **detergents** contg. **surfactants** and, with good handle)
- L43 ANSWER 20 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
1989:480372 Document No. 111:80372 Liquid **detergent compositions** with good storage stability. Bulfari, Mario; Van de Pas, Johannes Cornelis (Unilever N. V., Neth.). Braz. Pedido PI BR 8803786 A 19890221, 35 pp. (Portuguese). CODEN: BPXXDX. APPLICATION: BR 1988-3786 19880729. PRIORITY: GB 1987-18216 19870731; GB 1988-13689 19880609.
- AB The compns., with phase sepn. after 21 days <2%, comprise active **detergents** dispersed in an aq. phase contg. partially dissolved viscosity-reducing polymers [e.g., copolymers of alkali metal salts of (meth)acrylic or maleic acid] and dissolved electrolytes, and show viscosity  $\leq 1$  Pa-s at shear rate 21 s-1. An aq. soln. contg. Na dodecylbenzenesulfonate 7.7, lauryl ethoxylate sulfate 2.4, ethoxylated fatty alc. 2.4, zeolites 20.0, acrylic acid-maleic acid copolymer Na salt 3.5, citric acid 1.5, glycerol 8.0, borax 5.7, and additives 1.4% had viscosity 800 mPa-s and showed phase sepn. (after 3 mo) <2%.
- IT **9004-82-4**  
RL: USES (Uses)  
(storage-stable liq. **detergents** contg. acrylate-maleate viscosity-reducing polymers and)

RN 9004-82-4 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



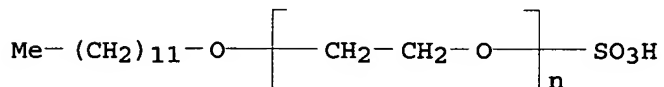
● Na

IC ICM C11D003-37  
 ICS C11D001-83; C11D003-14  
 CC 46-3 (Surface Active Agents and Detergents)  
 ST storage stability liq **detergent** compn;  
 dodecylbenzenesulfonate sodium stable liq **detergent**;  
 acrylate maleate copolymer **detergent** compn; phase sepn  
 prevention liq **detergent**; viscosity redn liq  
**detergent**  
 IT Alcohols, compounds  
 RL: USES (Uses)  
 (C13-15, ethoxylated, storage-stable liq. **detergents**  
 contg. anionic **surfactants** and acrylate-maleate  
 viscosity-reducing polymers and)  
 IT **Detergents**  
 (liq., manuf. of, contg. acrylate-maleate polymer viscosity  
 reducers, storage-stable)  
 IT 9004-82-4 25155-30-0, Sodium dodecylbenzenesulfonate  
 RL: USES (Uses)  
 (storage-stable liq. **detergents** contg. acrylate-maleate  
 viscosity-reducing polymers and)  
 IT 25549-84-2, Poly(sodium acrylate) 60472-42-6  
 RL: USES (Uses)  
 (viscosity reducers, storage-stable liq. **detergents**  
 contg.)

L43 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
 1989:480371 Document No. 111:80371 Anionic liquid **detergent**  
**compositions** with good foaming in hard water. Kanekiyo,  
 Takasumi; Tanaka, Noriaki; Koizumi, Yoshitaka (Mitsubishi  
 Petrochemical Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 01016898  
 A2 19890120 Heisei, 3 pp. (Japanese). CODEN: JKXXAF. APPLICATION:  
 JP 1987-172651 19870710.

AB Title compns. with excellent scum dispersion, useful in  
**shampoos** and face cleansers and for dishwashing and laundry  
 (no data), contain 1-10 parts R10(CH<sub>2</sub>CH<sub>2</sub>O)<sub>r</sub>SO<sub>3</sub>M (I: R1 = C7-21  
 alkyl, alkenyl; M = alkali metal; r = 0.5-7) and 1 part  
 R2CONH(CH<sub>2</sub>CH<sub>2</sub>O)<sub>p</sub>SO<sub>3</sub>M (II: R2 = C7-19 alkyl, alkenyl; M = alkali  
 metal; p = 1-3). Thus, an aq. soln. contg. 20% I (R1 = dodecyl, M =  
 Na, r = 3) and 2.5% II (R2 = C11H<sub>23</sub>, M = Na, p = 1) (III) showed  
 viscosity 7 cP and good foaming in water contg. 10 ppm Ca and  
 simulated skin oils, vs. 10 cP and poor foaming for a compn. contg.  
 coconut-oil fatty acid diethanolamide instead of III.

IT 9004-82-4  
 RL: USES (Uses)  
 (oligomeric, liq. **detergents** contg., with good foaming  
 and scum dispersion in hard water)  
 RN 9004-82-4 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC ICM. C11D001-29  
 ICS A61K007-075; A61K007-50  
 CC 46-3 (Surface Active Agents and Detergents)  
 Section cross-reference(s): 62  
 ST liq **detergent** anionic **surfactant**; foaming  
 property liq **detergent**; **shampoo** anionic  
**surfactant**; dishwashing **detergent** liq anionic  
**surfactant**; laundry **detergent** liq anionic  
**surfactant**; polyoxyethylene sulfate salt liq  
**detergent**; alc ether sulfate liq **detergent**; amide  
 ether sulfate liq **detergent**; ethoxylated fatty amide alc  
**detergent**  
 IT Amides, compounds  
 RL: USES (Uses)  
 (fatty, N-(hydroxyethyl), ethoxylated, sulfates, alkali metal  
 salts, liq. **detergents** contg., with good foaming and  
 scum dispersion in hard water)  
 IT **Detergents**  
 (liq., ethoxylated fatty alc. and amide sulfate mixts., with good  
 foaming and scum dispersion in hard water)  
 IT 142-86-9  
 RL: USES (Uses)  
 (liq. **detergents** contg., with good foaming and scum  
 dispersion in hard water)  
 IT 9004-82-4 34870-92-3D, fatty ether and amide derivs.,  
 alkali metal salts  
 RL: USES (Uses)  
 (oligomeric, liq. **detergents** contg., with good foaming  
 and scum dispersion in hard water)  
 L43 ANSWER 22 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
 1980:552005 Document No. 93:152005 Krafft points of anionic  
**surfactants** and their **mixtures** with special  
 attention to their applicability in hard water. Tsujii, Kaoru;  
 Saito, Naoyuki; Takeuchi, Takashi (Tochigi Res. Lab., Kao Soap Co.,  
 Tochigi, 321-34, Japan). Journal of Physical Chemistry, 84(18),  
 2287-91 (English) 1980. CODEN: JPCHAX. ISSN: 0022-3654.  
 AB The Krafft points are detd. for the Na and Ca salts of linear octyl-

and dodecylbenzenesulfonic acids,  $C_{12}H_{25}O(CH_2CH_2O)_nSO_3H$  (I) ( $n = 1$  or 3),  $C_{12}H_{25}CH(OH)CH_2CH_2SO_3H$ , and  $C_{12}H_{25}CH:CHCH_2SO_3H$  and their mixts. The salts of I are the best **surfactants** for use in hard water, i.e., their Na and Ca salts are sol. at room temp. and for binary **surfactant** mixts., the Krafft point either reaches a min. at a certain compn. (group I mixts.) or varies monotonously with the compn. change (group II mixts.). From the compn. anal. of the solid phase, the components are immiscible in group I mixts. and completely miscible in group II mixts. The thermodyn. theory for f.p. depression is applied favorably to the Krafft point vs. compn. curves for the group I mixts. Theor. calcns. for the Krafft point vs. compn. curve (liquidus curve) and the corresponding solidus curve for group II mixts. agreed poorly with the obsd. curves.

IT 15826-16-1 41343-91-3

RL: USES (Uses)

(Krafft point and hard water applicability of)

RN 15826-16-1 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

$Me-(CH_2)_{11}-O-CH_2-CH_2-OSO_3H$

● Na

RN 41343-91-3 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, calcium salt (9CI) (CA INDEX NAME)

$Me-(CH_2)_{11}-O-CH_2-CH_2-OSO_3H$

● 1/2 Ca

CC 46-3 (Surface Active Agents and Detergents)

ST Krafft point anionic **surfactant**; sulfate **surfactant** Krafft point; sulfonate **surfactant** Krafft point; anionic **surfactant** Krafft point; calcium salt **surfactant**; Krafft point

IT Krafft point

(of anionic **surfactants** as sodium and calcium salts)

IT **Detergents**

(anionic, sodium and calcium salts of, Krafft point and hard water applicability of)

IT 13150-00-0 13513-24-1 15826-16-1 25155-30-0

26264-06-2 28675-11-8 38826-82-3 41343-91-3

70497-16-4 74062-35-4 74077-32-0 74077-33-1

RL: USES (Uses)

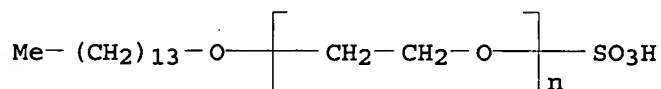
(Krafft point and hard water applicability of)

L43 ANSWER 23 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN  
 1977:108357 Document No. 86:108357 Cleaning **compositions**  
 containing alkyl ether sulfate **detergents**. Aalbers, Johan  
 Gerhard; Van Paassen, Nicolaas Adrianus Ignatius (CHEM-Y, Fabriek  
 van Chemische Produkten B. V., Neth.). Ger. Offen. DE 2632953  
 19770210, 15 pp. (German). CODEN: GWXXBX. APPLICATION: DE  
 1976-2632953 19760722.

AB Ethoxylation of alcs. in the presence of SbCl<sub>5</sub> catalysts, followed  
 by sulfation, gave RO(C<sub>2</sub>H<sub>5</sub>O)<sub>n</sub>SO<sub>3</sub>Na (R = C<sub>10-15</sub> alkyl, n = 1-5) which  
 had good foaming properties, gave aq. solns. suitable for thickening  
 by the addn. of NaCl, and were esp. useful in liq. **detergent**  
 formulation for washing dishes and hair.

IT 27731-62-0  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**cleaning** compns. contg., with improved viscosity and  
 foaming properties)

RN 27731-62-0 HCAPLUS  
 CN Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(tetradecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC C11D001-16  
 CC 46-3 (Surface Active Agents and Detergents)  
 ST alkyl ether sulfate **detergent**; dishwashing alkyl ether  
 sulfate; **shampoo** alkyl ether sulfate; ethoxylate alc  
 sulfate **detergent**; foaming alkyl ether sulfate; thickening  
 alkyl ether sulfate

IT **Detergents**  
 (alkyl ether sulfate, with improved viscosity and foaming  
 properties)

IT Viscosity  
 (alkyl ether sulfates for liq. **detergents** with  
 improved)

IT Alcohols, uses and miscellaneous  
 (C<sub>12-15</sub> aliph., branched, **cleaning** compns. contg., with  
 improved viscosity and foaming properties)

IT Alcohols, compounds  
 (C<sub>12-15</sub> aliph., ethoxy, sodium sulfates, **cleaning**  
 compns. contg., with improved viscosity and foaming properties)

IT 25322-68-3D, monoalkyl ether, sulfate, sodium salts  
 27731-62-0 39388-31-3D, ethoxylated, sulfated, sodium salt  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**cleaning** compns. contg., with improved viscosity and  
 foaming properties)

L43 ANSWER 24 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1975:412744 Document No. 83:12744 Disinfectant **detergent mixtures**. Gluck, Bruno (BOCO Waeschedienst Ernst Rethwisch, Fed. Rep. Ger.). Ger. Offen. DE 2341785 19750227, 16 pp. (German). CODEN: GWXXBX. APPLICATION: DE 1973-2341785 19730817.

AB Disinfectant **detergents** contained iodine [7553-56-2], **surfactant** poly(oxethylene) condensates, e.g. polyethylene glycol nonylphenyl ether (I) [9016-45-9] and another **surfactant**, e.g. Na dodecylbenzenesulfonate (II) [25155-30-0], or triethanolamine lauryl ether sulfate [52094-59-4]. Thus, 0.05 parts iodine were added to 20 parts aq. soln. contg. ethoxylated I 2, II 4, and Na lauryl sulfate [151-21-3] 6 parts and the pH was adjusted to 5.5. by citric acid addn. to give a conc., which was dild. 1:10 before use.

IT 27028-82-6

RL: USES (Uses)

(**disinfectant detergents** contg. iodine)

RN 27028-82-6 HCAPLUS

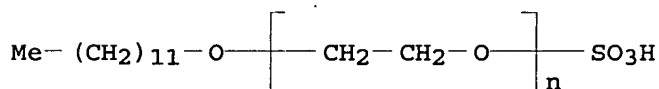
CN Ethanol, 2,2',2''-nitrilotris-, compd. with  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)poly(oxy-1,2-ethanediyl) (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 26183-44-8

CMF (C2 H4 O)<sub>n</sub> C12 H26 O4 S

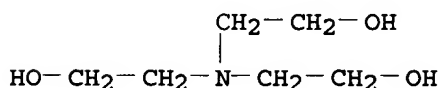
CCI PMS



CM 2

CRN 102-71-6

CMF C6 H15 N O3



IC C11D

CC 46-3 (Surface Active Agents and Detergents)

Section cross-reference(s): 63

ST disinfectant **detergent** iodine

IT **Detergents**

(bactericides for, iodine as)

IT Bactericides, **Disinfectants** and Antiseptics

(iodine, in **detergents**)

IT 7553-56-2, uses and miscellaneous

RL: USES (Uses)

(**disinfectant detergents** contg.)

IT 120-40-1 151-21-3, uses and miscellaneous 1331-61-9 9003-39-8



9014-90-8 9016-45-9 9036-19-5 25155-30-0 26545-53-9  
 27028-82-6 45205-25-2

RL: USES (Uses)

(disinfectant detergents contg. iodine)

L43 ANSWER 25 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1974:465557 Document No. 81:65557 Liquid **detergent**  
**compositions** having pearllike luster. Naganuma, Yoshinori  
 (Kao Soap Co., Ltd.). Jpn. Tokkyo Koho JP 48042937 B4 19731215  
 Shôwa, 5 pp. (Japanese). CODEN: JAXXAD. APPLICATION: JP  
 1969-76398 19690925.

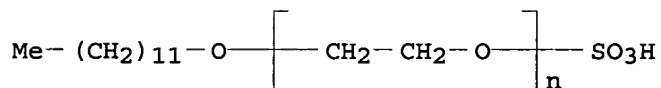
AB **Detergents** contg. an alkoxy or alkylphenoxy  
 polyethenoxyethyl sulfate and a fatty acid alkylol amide had good  
 washing and foaming power and pearllike luster and were mild to the  
 skin. Thus, a **detergent** comprised polyethylene glycol  
 monolauryl ether Na sulfate [9004-82-4] 15, lauric acid  
 monoethanolamide [142-78-9] 5, urea 5, perfume 0.2, and water 74.8%  
 and a trace amt. of coloring substance.

IT 9004-82-4

RL: TEM (Technical or engineered material use); USES (Uses)  
 (**detergents** contg., for pearllike luster)

RN 9004-82-4 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha$ -sulfo- $\omega$ -(dodecyloxy)-,  
 sodium salt (9CI) (CA INDEX NAME)



● Na

IC C11D

CC 46-3 (Surface Active Agents and Detergents)

ST pearllike luster liq **detergent**; alkylol amide  
**detergent** luster; polyethylene glycol sulfate  
**detergent** luster

IT Amides, compounds

RL: USES (Uses)

(alkylol derivs., **detergents** contg., for pearllike  
 luster)

IT Luster

(liq. **detergent** with pearllike)

IT **Detergents**

(liq., with pearllike luster)

IT 142-78-9 9004-82-4

RL: TEM (Technical or engineered material use); USES (Uses)  
 (**detergents** contg., for pearllike luster)

L43 ANSWER 26 OF 26 HCAPLUS COPYRIGHT 2005 ACS on STN

1973:99474 Document No. 78:99474 Krafft points of calcium and sodium  
 dodecylpoly(oxyethylene) sulfates and their **mixtures**.

Hato, Masakatsu; Shinoda, Kozo (Res. Inst. Polym. Text., Yokohama,

Japan). Journal of Physical Chemistry, 77(3), 378-81 (English)  
1973. CODEN: JPCCHX. ISSN: 0022-3654.

AB Increasing the oxyethylene chain length of calcium- [ 34354-50-2] and Na dodecylpoly(oxyethylene) sulfate (I) [ 9004-82-4] decreased the crit. micelle concn. and depressed the Krafft point, thereby rendering the Ca salts suitable for hard water **surfactants**. Addn. of Ca to I aq. soln. initially depressed the Krafft point, then increased it rapidly up to the Krafft point of the added Ca salt. The change in Krafft point of a binary **surfactant** mixt. was very similar to f.p. depression in a binary mixt.

IT 15826-16-1 41343-91-3

RL: PRP (Properties)

(critical micelle concentration of and Krafft point of,)

RN 15826-16-1 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, sodium salt (9CI) (CA INDEX NAME)

Me- (CH<sub>2</sub>)<sub>11</sub>-O-CH<sub>2</sub>-CH<sub>2</sub>-OSO<sub>3</sub>H

● Na

RN 41343-91-3 HCAPLUS

CN Ethanol, 2-(dodecyloxy)-, hydrogen sulfate, calcium salt (9CI) (CA INDEX NAME)

Me- (CH<sub>2</sub>)<sub>11</sub>-O-CH<sub>2</sub>-CH<sub>2</sub>-OSO<sub>3</sub>H

● 1/2 Ca

CC 46-3 (Surface Active Agents and Detergents)

ST crit micelle concn **surfactant**; Krafft point ethoxylation degree; sodium alkyl glycol sulfate; calcium alkyl glycol sulfate; polyoxyethylene glycol sulfate **surfactant**; binary **surfactant** Krafft point

IT **Detergents**

(calcium and sodium dodecylpoly(oxyethylene) sulfates, critical micelle concn. and Krafft point of)

IT 151-21-3, properties 3088-31-1 4780-52-3 13150-00-0

15826-16-1 38826-82-3 41343-91-3 41343-92-4

RL: PRP (Properties)

(critical micelle concentration of and Krafft point of,)

=>